UNIVERSITY OF MADRAS

NINETY-SEVENTH ANNUAL REPORT FOR 1953

January 1954

I. INTRODUCTORY

1. The Syndicate presents to the Senate, under Section 20 of the Madras University Act of 1923 as amended in 1929, the report on the working and progress of the University for the year ending 31st December 1953.

2. Among the many-sided activities of the University which are detailed under the appropriate headings, special mention may be made of the following:

(i) The inauguration of the University Hostel Construction Co-operative Society by the Chancellor on the 27th November, 1953. The Society will grant loans to Colleges which may require assistance to provide adequate hostel accommodation.

(ii) With a view to improving the scales of pay and the conditions of service of teachers in Colleges, the Syndicate has laid down minimum scales of pay and conditions of service for adoption by the Managements of Colleges.

(iii) The course for the Degree of Bachelor of Dental Surgery has been opened in the Madras Medical College.

(iv) Diplomas in Horticulture and in Social Service were instituted during the year and instruction for the courses commenced in July 1953.

II. PERSONNEL

3. **Chancellor :** Shri Sri Prakasa, B.A., LL.B. (Cantab.), Barrister-at-law, Governor of Madras, continued as Chancellor of the University.

4. **Pro-Chancellor :** Sri M. V. Krishna Rao, B.A., M.B., B.S., M.L.C., was Pro-Chancellor till 30th September 1953, when he relinquished his Office as Education Minister on the formation of the Andhra State. Sri C. Subrahmanyan, B.A., B.L., M.L.A. became the Pro-Chancellor on the 1st October 1953, on his becoming Minister of Education of the Madras State.

5. **Vice-Chancellor :** Lt.-Col. Sir A. Lakshmanaswami Mudaliar, M.D., LL.D., D.Sc., D.C.L., F.R.C.O.G., F.A.C.S., M.L.C., continued to be the Vice-Chancellor of the University. For the period of his deputation from 4th to 26th May 1953, to attend the meeting of the World Health Organisation at Geneva as a member of the delegation of the Government of Idnia, Sri S. Govindarajulu Nayudu, B.A., B.L., LL.B., Barrister-at-law, acted as Vice-Chancellor in an honorary capacity. The Vice-Chancellor attended the Commonwealth Universities' Conference held in Cambridge in July and the First World Conference on Medical Education held in London from 24th August to 29th August.

6. **Registrar :** Sri R. Ravi Varma, M.A. (Lond.), continued as Registrar. When he was on leave for a period of six weeks from the 3rd August 1953, Dr. D. Sivasubrahmania Mudaliar, Deputy Registrar acted as Registrar.

Sri D. Sivasubrahmania Mudaliar, M.R.C.P. L.R.C.P., continued as Deputy Registrar and Sri D. Narayana Ayyar as Assistant Registrar.

III. UNIVERSITY AUTHORITIES

7. **The Senate :** Two meetings of the Senate were held during the year. The annual meeting was held on the 27th March, 1953 and the ordinary meeting on the 17th November, 1953. The average attendance at the meetings was about 70 per cent.

8. Convocations were held thrice during the year — on the 28th February, 1953, on the 18th and 19th August, 1953. A special meeting of the Senate for awarding Titles and Diplomas was held on the 17th November, 1953.

9. **The Syndicate :** There were ten meetings of the Syndicate during the year and certain items were considered in circulation.

10. **The Academic Council :** The Academic Council met on the 27th February, and on the 18th September, 1953. The average attendance at the meetings was about 85 per cent.

11. **The Standing Committee of the Academic Council :** The Committee met on the 16th January, 10th March, 11th May and 10th August, 1953. Urgent business was also transacted in circulation.

12. **Boards of Studies :** All the Boards of Studies met during the year. The Board of Studies in Malayalam was reconstituted during the year.

13. **Faculties :** New members of the Academic Council were assigned to various Faculties by the Academic Council. The following were elected as Presidents of Faculties during the year :

Faculty of Teaching : The Rev. T.R. Foulger, M.A.
Faculty of Commerce : Sri P.D. Swaminatha Mudaliar, B.A.
Faculty of Fine Arts : Sri P. Sambamurthi, B.A., B.L.

14. The Syndicate reports with regret the death of the following former members of University Authorities :

Dr. M. A. Basir.
The Rev. Joseph A. B. Coelho.
Sri P. D. Karunakar.
Sri Alladi Krishnaswami Ayyar.
Sri Muhammad Ishaq Hashimi.
Sri V. I. Muniswami Pillai.
Sri S. Muthiah Mudaliar.
Sri K. P. Padmanabha Pillai.
Sri N. Parameswaran.
Sri T. S. S. Rajan.
Sri S. D. Sargunar.
Sri R. N. Selvam.
Sri R. K. Shunmugam Chetti.
Dr. T. S. Tirumurti.
Sri C. J. Varkey.
Sri S. C. Venkatappa Chettiar.
Sri T. R. Venkatarama Sastri.
Sri V. R. Ramachandra Dikshitar.

IV. LEGISLATION

(i) Statutes

15. The following additions to, and alterations in, the Statutes were adopted by the Senate during the year :

(*Volume I, University Calendar*, 1953-54)

(1) Chapter XIX : Amendment of Statutes 17, 18 and 21 relating to the procedure for submission and scrutiny of nomination papers for elections to University Bodies and revision of the Declaration and Intimation forms.

(2) Chapter XXIX : Revision of Statute 15 increasing the Research Fellowships from three to six and reserving three places for teachers.

(*Volume II, University Calendar*, 1951-52)

(3) Chapter XXXVII : Amendment of Statute 1, prescribing fees (*a*) for the M. B. B. S. (revised), B.Sc. (Ag.) (revised) and the B.D.S. Degree Examinations and for the Examinations for the Post-graduate Diploma in Horticulture and the Diploma in Social Service ; and

(*b*) for subsequent appearances in Part I or Part II of M. Litt., M.Sc. and Ph.D.

(ii) Ordinances

16. The following alterations in, and additions to the Ordinances were submitted to the Chancellor and the Senate under Section (32) (2) of the Act:—

(*Volume I, University Calendar*, 1953-54)

(1) Chapter XV : Revision of Ordinance 3, empowering the Syndicate to reconstitute the Board of Studies in Malayalam appointed in January 1952.

(*Volume II, University Calendar*, 1951-52)

(2) Chapter XXXIV : Amendment of Ordinance I (a) IV to include Textile Technology under the Bifurcated courses of the S. S. L. C. Examination as one of the subjects for eligibility.

(3) Chapter XXXVI : (*a*) Revision of Ordinance 3, so as to include the examination for the B.D.S. among those to be held twice a year and (*b*) deletion of the Pre-Registration Examination.

(*b*) Revision of Ordinance 7, for the inclusion of Dental Surgery, Horticulture and Social Service among the subjects for which Examination Boards have to be appointed.

(4) Chapter XXXVIII : Amendment of the Ordinance governing the dates for payment of examination fees, etc., for B.Sc. (Ag.) (Revised Regulations), B.D.S., Post-graduate Diploma in Horticulture, Diploma in Social Service, B.T. and Certificate in Librarianship.

(iii) Regulations

17. The alterations in, and additions to, the Regulations adopted by the Academic Council during the year and placed before the Senate under Section 33 of the Act are given below :

(*Volume II, University Calendar,* 1951-52)

(1) Alterations to the Regulations in Chapters XL and LV permitting *bona fide* teachers who have qualified for an Oriental Title of this University to appear for the B.O.L. Degree Examination under certain conditions.

(2) Alterations to the Regulations in Chapter XLII—Intermediate Examination—omitting Composition under Part III Group D and providing for Translation from English into the language and *vice-versa.*

(3) Alterations to the Regulations in Chapter XLII—Intermediate Examination—clarifying the scope of the papers in languages under Part III—Lower and Higher Standards.

(4) Alterations to Regulation 3 of Chapter XLII—Intermediate Examination—increasing the duration of the two papers in Commerce from 2 to 2½ hours.

(5) Alterations to the Regulations in Chapter XLIII—B.A. Degree Examination—revising the course of study, scheme of

examination, etc., under Part III, Group (iv-d)—Islamic History and Culture.

(6) Alterations to the Regulations in Chapters XLIV, XLIX, L, LV, LVI and LXXVII providing for exemption from the course and examination in Part I for candidates who have already qualified for B.A., B.A. (Hons.), B.Sc., B.Sc. (Hons.), B.Com., B.O.L., or B.O.L. (Hons.) Degree and proceed to any other course.

(7) Alterations to the Regulations in Chapter XLIV—B.A. (Hons.) Degree Examination—revising the course of study in Branch II-A—Philosophy.

(8) Alterations to the Regulations in Chapters XLVI, LII and XLVII permitting candidates who have registered for the Research Degrees (M.Litt., M.Sc., Ph.D.), under the Regulations in force prior to August, 1950 to supplicate for the Degrees under those Regulations till the end of the Academic year 1954-55.

(9) Alterations to the Regulations in Chapter XLIX—B.Sc. Degree Examination—redistributing the marks for the Practical Examination in Chemistry Main.

(10) Alterations to the Regulations in Chapters LXXVII and LXXVIII regarding admission to the B. Com. (Pass or Honours) courses of candidates who have taken "Elements of Commerce and Accountancy" in the Intermediate Examination and transitory provision.

(*Volume III, University Calendar,* 1951-52)

(11) Alterations to the Regulations in Chapter LVIII—B.L. Degree Examination exempt-

ing candidates who passed the F.L. Examination under the Regulations in force prior to 1951-52 from taking the paper on 'Constitutional Law' in the B. L. Degree Examination.

(12) Alteration to the Regulation in Chapter LIX —M.L. Degree Examination—regarding admission to the M. L. Degree in International and Constitutional Law of candidates who have followed a course of study in the University Department or in a recognised institution.

(13) Alterations to the Regulations relating to the M.B.B.S. Degree—Chapter LXI—revising the course of study and examination.

(14) Alterations to the Regulations in Chapter LXII—adding Pharmacology to the list of subjects for M.Sc. by research in the Veterinary Faculty.

(15) Alterations to the Regulations in Chapter LXXII—Degree of Bachelor of Teaching —(i) permitting *bona fide* teachers who are graduates of this University or of other Universities to undergo the shortened B.T. Course, (ii) permitting candidates to appear for an additional subject or subjects without the production of additional attendance certificates and (iii) making transitory provision for candidates who have completed the course of study for the L.T. Degree or B.T. Degree under the Old Regulations to appear for the B.T. Degree.

(16) Alterations to the Regulations in Chapter LXXIII Degree of Master of Education—revising the course of study and scheme of examination.

(17) Alterations to the Regulations in Chapter LXXIII—M.Ed. Degree examination—making transitory provision to enable failed candidates to take the M.Ed. Degree examination under the Old Regulations.

(18) Alterations to the Regulations in Chapter LXXIV—B.Sc. (Ag.) Degree Course—revising the course of study and scheme of examination.

(19) Alterations to the Regulations in Chapter LXXIV—B.Sc. (Ag.) Degree Examination —revised—changing the dates of the first examination from April to March, the second from March to January and the third from April to May in order to arrange for the six months' intensive practical training within the academic year.

(20) Regulations relating to the Post-graduate Diploma in Horticulture.

(21) Regulations relating to the Diploma in Social Service.

V. CONSTITUENT AND AFFILIATED INSTITUTIONS

18. During the year, one Second Grade College, Fatima College for Women, Madurai, and an Oriental College, Sree Santhalingar Tamil Kalloori, Perur (Coimbatore Dt.) were opened. Two second grade Colleges, Government College, Mercara (Coorg) and Mahatma Gandhi Memorial College, Udipi were raised to the First Grade from July 1953. The Madras Medical College was granted affiliation for courses for the Bachelor of Dental Surgery and for the Diploma in Venereology. Two Colleges, Stella Maris College, Madras, and P.S.G. Arts College, Coimbatore, were

granted affiliation for the Diploma course in Social Service. The Agricultural College, Coimbatore, was permitted to commence the course for the Post-graduate Diploma in Horticulture from July. Students have been admitted to the respective colleges for these courses.

19. The number of Constituent, Affiliated and Oriental Colleges at the end of the year (31st December, 1953) distributed according to the several Faculties was as follows :

Faculty	*Constituent Colleges.*	*Affiliated Colleges.*
Arts and Science—		
Second Grade Colleges teaching upto Intermediate course.	3	12
First Grade Colleges (Intermediate, B.A. and/or B.Sc. courses) ...	4	41
Honours Colleges (Intermediate, B.A., and/or B.Sc. Pass and Honours courses).	4	2
First Grade Honours Colleges (B.A. and B.Sc. Pass and Honours) ...	1	...
Law—		
F.L. and B.L. ...	1	...
Medicine—		
M.B.B.S., M.D., M.S. ...	1	1
M.B.B.S., B.S.Sc., B.Sc. (Pharmacy), B.D.S., M.D., M.S. & Diploma courses ...	1	...
*B. Sc. (Nursing) ...	...	1
Engineering—		
F.E. and B.E. ...	1	4

* The course is provided in the Affiliated College of Medicine.

Teaching—		
B.T. and M.Ed. ** ...	4	...
B.T. ...	...	7
Agriculture—		
B.Sc. (Ag.) ...	...	1
Veterinary Science—		
B.V.Sc. ...	1	...
Technology—		
B.Sc. (Tech.) ...	1	...
Commerce—		
† B. Com. (Pass & Hons.) ...	2	...
† B.Com. (Pass) only ...	1	17
Oriental Learning—		
† B.O.L. (Hons.) ...	1	...
† B.O.L. ...	...	1

Oriental Colleges

Siromani and Vidvan.	10	Munshi-i-Fazil and/or Afzal-ul-Ulama or Adib-i-Fazil ...	6
Siromani only ...	4		
Vidvan only ...	5		
Sangita Siromani ...	1		

20. The following institutions were granted recognition, affiliation or approval in the courses mentioned against each, with effect from the academic year 1953-54 (*Vide* **Appendix A**).

21. Applications for further or fresh recognition, affiliation or approval with a view to opening classes from the academic year 1954-55, were received from 34 institutions and they are under consideration. Colleges which were granted provisional affiliation till the end of the academic year 1953-54, have also applied for extension

** The M.Ed. Degree course is conducted with University co-operation and on an Inter-collegiate basis by the four Constituent Training Colleges.

† These courses are provided in the Colleges already included under Arts and Science.

of provisional affiliation or for permanent affiliation from the next academic year, 1954-55.

22. **Admission to Colleges:** As in previous years permission was granted for increase in the number of admissions wherever facilities existed. The number of students reported to have been admitted in July-August 1953, in the Junior Intermediate class was 17,206, the corresponding numbers during the previous five years from 1948 being 12,250, 12,650, 12,840, 15,260 and 16,502. During the academic year 1953-54 (according to the statements received in December 1953), the total number of students undergoing courses in Arts and Science is 46,381 including 1,820 undergoing Commerce courses. The number of students undergoing professional and other courses is as follows :—

Law	1,360	Teaching	865
Medicine (excluding Post-graduate Degree and Diploma courses)	1,863	(B.T. 849 M.Ed. 16)	
		Technology	82
		Nursing	55
		M.Sc. (by Examination)	24
		Diploma classes (only those conducted in the University).	266
Engineering	1,576		
Agriculture (including Dip. in Horticulture)	275	Dip. in Social Service	56
		Oriental Titles	1,465
Veterinary Science	287		

23. **Women Students:** During the year under report the number of women students studying in Arts and Science Colleges was 6,581 and in Professional Institutions 834 whereas the corresponding numbers during the previous year were 6,086 and 890 respectively. The strength in Women's Colleges alone was 5,143 in Arts and Science and 250 in Professional courses.

24. **Hostels:** Regarding the Madras University Hostel Construction Co-operative Society, referred to

in the last Annual Report, tentative proposals were forwarded to Government with a suggestion that the grants payable towards construction of hostels might be made through the University. It was also proposed that some of the invested funds of the University might be lent to the Co-operative Society, and that the University might make a contribution to the running expenses of the Society or grant a recurring subsidy.

In reply to the proposal sent by the University, the Government stated in G. O. Ms. No. 368, Education, dated the 25th February 1953, that "the Government have no objection to the formation of a Co-operative Housing Society by the University for the purpose of advancing loans to aided Colleges for the purpose of construction of hostels for students. This does not in any way commit the Government to sanction grants for such building scheme. The provision of grants from the Government to the Society each year will depend upon the Government's financial position and the grant will be subject to the maximum limits of Rs. 50,000 for the scheme pertaining to a second grade College and Rs. 75,000 for the scheme relating to a first grade College. Orders regarding the relaxation of the provisions of the Madras Co-operative Societies Act will issue separately in the Development Department." A further G. O. No. 2125, dated the 7th May 1953, from the Development Department was received exempting "the Co-operative Society for construction of students' hostels proposed to be organised in the City of Madras from the provisions of Sections 7 (1) and 6 (b) of the Co-operative Societies Act to enable the University of Madras and its Constituent and Affiliated Colleges to become members of the Society and to hold shares in it upto a maximum of Rs. 25,000 in each case."

Draft bylaws were framed for the proposed Society in consultation with the Registrar of Co-operative

Societies. These bylaws were placed before a meeting of the managements, members of the Syndicate and Principals of Colleges on the 17th September 1953, at which the Registrar of Co-operative Societies was also present. The meeting approved these bylaws and decided to apply for registration of the Society. The Registrar of Co-operative Societies accordingly registered the Society.

The Senate at its meeting on the 17th November 1953 approved the formation of the Society. The Society was formally inaugurated by Shri Sri Prakasa, Chancellor, on Friday, the 27th November, 1953.

25. Out of a total number of about 52,800 students in Arts and Science and in Professional Colleges, 18,150 are reported to be residing in College hostels or approved hostels, and about 3,200 in lodgings approved by the College authorities, and the rest with their parents or guardians.

26. **Service conditions of teachers in Colleges:** Early in the year the Syndicate considered references from Managements of Colleges suggesting amendments or offering comments or requesting clarification of the draft rules regarding conditions of service of teachers in colleges (other than in State Colleges) previously sent to them in 1951, and made certain modifications. A copy of the rules together with the form of Agreement to be adopted, was sent to all Managements.

27. **Revision of Scales of salaries :**—The Syndicate has had under consideration for some time the question of revision of salaries for teachers in Colleges in view of the general conditions existing and representations received. The subject was also discussed at a meeting of the Principals of Colleges and at a meeting of the Vice-Chancellor with the Managements of Colleges.

After taking into consideration all aspects of the matter and the scales of salaries existing in Government and aided Colleges, the Syndicate has informed the Managements of Colleges that the following revised scales of salaries should be adopted as the minimum for teachers in all colleges providing instruction in Arts, Science, Commerce or Teaching:—

Principals of Colleges (Other than Second Grade) ...	Rs. 400-25-600-25-800
Principals of Second Grade Colleges ...	Rs. 300-20-400-25-500
Professors and Additional Professors. ...	Rs. 250-15-400-25-500
Lecturers (Assistant Professors) including Degree holders in Language Departments ...	Rs. 150-150-10-300
Lecturers in Language Departments (Oriental Title Holders)	Rs. 100-5-150-10-200
Tutors/Demonstrators ...	Rs. 85-5-125
Physical Directors (Graduates with Diploma in Physical Education) ...	Rs. 150-150-10-250
Librarians:	
(a) Graduates with Diploma in Librarianship ...	Rs. 150-150-10-250
(b) Graduates with Certificate in Librarianship ...	Rs. 100-10-200
(c) Undergraduates (Intermediate) with Certificate in Librarianship ...	Rs. 75-5-125

A majority of the Colleges have adopted the revised scales of salaries from the academic year 1953-54 and the Syndicate has decided that the

Managements of Colleges which have not given effect to the scheme this year be informed that the revised scales should be brought into effect from the year 1954-55. A scheme of weightage to be followed in the case of lecturers and professors who have put in service in the institution has also been suggested by the Syndicate.

The Syndicate has also indicated that it will be prepared to consider representations regarding scales of pay in Women's Colleges, where the staff have certain special amenities such as residential accommodation, community life, etc., and where in view of the limited number of students on the rolls, the ratio of staff to students is high.

28. **College Endowment Fund :**—The Syndicate considered the scheme for the utilization of part of the rental value of new hostels towards the College Endowment Fund and decided that in the case of hostels which have been built within the last nine years (i.e., from the academic year 1945-46), the income derived from the hostel may be calculated according to certain scales (about 50 per cent of the net annual income) and accepted as part of the income required from endowment fund.

VI. COURSES OF STUDY AND EXAMINATIONS.

29. **S.S.L.C. :**—The Ordinance relating to the S.S.L.C. was further amended to include Textile Technology as one of the subjects for eligibility for the S.S.L.C. examination.

30. **Courses of Study :**—Some of the important changes in the Regulations relating to examinations are mentioned below :

Provision has been made to permit *bona fide* teachers who have previously qualified for an Oriental

Title to proceed to the B.O.L. Degree Examination, under certain conditions, without the production of attendance certificates. The course of study and syllabus in Islamic History—Group (iv-d) under Part III of the B.A. Degree Examination have been revised. Provision has been made exempting in Part I those who had already qualified for B.A. (Pass or Hons.), B.Sc. (Pass or Hons.), B.O.L. (Pass or Honours) or B.Com. Degree Examination and proceed to any other of these courses.

31. Revised Regulations for the M.B.B.S., B.Sc. (Ag.) and M.Ed. Degree Examinations and Regulations for the newly instituted Diplomas in Horticulture and Social Service have been adopted.

32. The Academic Council has approved of certain recommendations of the Board of Studies in Oriental Languages to revise the Regulations relating to the B.O.L. Degree. The Draft Regulations will be framed and placed before the Academic Council in due course after a further examination of the proposals by the Boards of Studies in languages.

33. **S.S.L.C. and A.I.H.S. Examinations :—** The Board of Secondary Education under the S.S.L.C. Scheme which was constituted in September 1952 had to be reconstituted consequent on the formation of the Andhra State. The Syndicate has re-nominated the following to the Board:—

1. The Rev. L. D. Murphy, S.J., M.A.
2. Sri R. Krishnamurti, M.A.
3. Sri Alexander Gnanamuttu, M.A., M.L.C.
4. Sri C. A. Samuel, B.A., L.T.
5. Sri K. M. Sundaram, B.A., L.T.
6. Sri S. Natarajan, B.A., L.T.

The Board for Anglo-Indian School Leaving Certificates was reconstituted on the 1st April 1953.

The following are the nominees of the University on the Board:

Sri John V. Asirvatham, M.A., L.T.
Mrs. M. Connor, B.A., L.T.

34. The number of candidates who appeared for the S.S.L.C. Examinations in March and October 1953 in the University area and declared eligible for admission to University courses of study were as follows :—

	March	*October*
Candidates taking subjects qualifying for eligibility.	56,073	14,156
Candidates declared eligible.	27,800	5,270

In the Anglo-Indian High School Examination held in November, 543 candidates were declared eligible.

35. **Examinations :**—Examinations were held at the several centres notified. The statement giving the number of candidates that appeared for and passed the several examinations and qualified for the Degrees, Titles, Certificates and Diplomas during the year 1953 is in **Appendix B.**

36. **Research Degrees :**—The number of persons who submitted theses for research Degrees and the number declared qualified during the year 1952-53 were as follows :—

	Number of candidates who submitted theses	*Number declared qualified for the Degree*
M.Litt. ...	13	9
Ph.D. ...	16	11 (includes one candidate who submitted a thesis for the D.Litt., but was declared qualified for the Ph.D.)
D.Litt. ...	3	... (The result of one candidate is pending)
M.Sc. ...	30	24

37. Particulars regarding the theses approved during the year are in **Appendix C.**

38. During the year the number of candidates registered for Research Degrees was as follows :—

M. Litt. 18; Ph.D. 49; M.Sc. 59.

39. **Sanskrit Entrance Test :**—The Sanskrit Entrance Test Eligible list in respect of the students who appeared from this University area was published by the University. The number of students declared eligible was 61 for the Siromani course and 75 for the Vidvan course.

40. **Exemption from attendance certificates:**— Applications for exemption from the production of attendance certificates from the prescribed courses for the various examinations were disposed of according to the rules. The following is the classified list of exemptions granted :—

		College	*Private*	*Bonafide Teachers*
Matriculation	...	...	1151	...
Intermediate	...	143	...	481
B.A.	...	41	...	197
B.A. (Hons.)	...	6	...	...
M.A.	...	...	...	58
B.Sc.	...	17	...	...
B.Sc. (Hons.)	...	9	...	...
B.Com.	...	13	...	...
B.E.	...	4	...	...
B.L.	...	3	...	...
B.T.	...	4	...	...
B.V.Sc.	...	2	...	...
B.Sc. (Ag.)	...	2	...	...
B.Sc. (Tech.)	...	1	...	...

	College	*Private*	*Bonafide Teachers*
Entrance Test (Oriental Titles and Intermediate Group-D) ...	...	840	...
Oriental Titles ...	2	275	306
B.O.L. ...	...	...	30
B.O.L. (Hons.) ...	...	...	6
Diploma in Statistics.	1	...	...
Diploma in Economics.	1	...	...

41. **Recognition of Examinations of other Bodies and Universities** :—2,976 applications for recognition of examinations of other Bodies and Universities for purposes of continuing higher studies in this University were considered and recognition granted during the year.

VII. CONVOCATIONS

42. During the year three convocations were held for conferring Degrees, on the 28th February and on the 18th and 19th August 1953. Shri Sri Prakasa, Chancellor presided over the main Convocation on the 18th August. Dr. V. S. Krishna, the Vice-Chancellor of the Andhra University delivered the address at the Convocation. On the second day the Vice-Chancellor presided. Sri M. V. Krishna Rao, B.A., M.B.B.S., M.L.C., Pro-Chancellor presided over the supplemental Convocation on the 28th February 1953.

43. The number of persons on whom Degrees were conferred at the three Convocations is given below :

Degrees	*Men*	*Women*	*Total*
M.L. ...	2	1	3
B.L. ...	424	6	430
M.D. ...	6	3	9
M.S. ...	6	...	6

Degrees		*Men*	*Women*	*Total*
B.S.Sc.	...	1	...	1
M.B.B.S.	...	218	92	310
B.Sc. (Pharm.)	...	5	...	5
B. Pharm.	...	2	...	2
B.E.	...	278	1	279
M.Sc.	...	22	3	25
M.Sc. (by Exam.)	...	9	1	10
B.Sc. (Hons.)	...	101	24	125
B.Sc.	...	1,137	162	1,299
B.Sc. (Ag.)	...	58	...	58
B.V.Sc.	...	76	1	77
B.Sc. (Tech.)	...	28	...	28
B.Com. (Hons.)	...	20	...	20
B.Com.	...	735	2	737
M.Ed.	...	7	4	11
B.T.	...	562	228	790
L.T.	...	12	6	18
M.Litt.	...	1	...	1
Ph.D.	...	9	2	11
M.A.	...	329	58	387
B.A. (Hons.)	...	391	56	447
B.A.	...	2,149	551	2,700
B.A. (War)	...	4	...	4
B.O.L. (Hons.)	...	3	...	3
B.O.L.	...	9	1	10
Total	...	6,604	1,202	7,806

44. At the special meeting of the Senate held on the 17th November 1953, Titles and Diplomas were awarded to 461 candidates.

VIII. TEACHERS AND RESEARCH DEPARTMENTS

45. The demise of Prof. V. R. Ramachandra Dikshitar, Professor of History and Archaeology, at the end of November is reported with deep regret.

46. The following appointments were made to the vacancies which arose during the year :

1. Sri K. N. Ezhuthachan, M.A., Junior Lecturer in Malayalam.
2. Sri D. Bright Singh, M.A., Ph.D., Senior Lecturer in Economics.
3. Sri B. S. Krishnamoorthy, Instructor in Spinning.
4. Sri K. Ramakrishnan, B.Sc. (Hons.), Ph.D., Senior Lecturer in Botany.
5. Sri S. Ramanathan, M.A., Research Assistant in Geology.
6. Sri K. S. Chandrasekharan, M.Sc., Research Assistant in Physics.

47. The Government of India was pleased to sanction grants for the provision of additional staff with a view to the expansion of research facilities in the Science Departments. The following were consequently appointed :

Chemistry—

Sri S. Swaminathan, B.Sc. (Hons.), Ph.D., A.I.I.Sc., Reader in Organic Chemistry.

Sri E. R. B. Shanmugasundaram, B.Sc. (Hons.), Senior Lecturer in Biochemistry.

Botany—

Sri C. V. Subrahmanyan, M.A., Ph.D., Reader in Botany.

Zoology—

Sri S. Krishnaswamy, M.Sc., Senior Lecturer in Zoology.

Statistics—

Sri G. S. Lingappiah, B.Sc. (Hons.), M Sc., Senior Lecturer in Statistics.

Sri D. V. Rajalakshman, M.A., M.Sc., Ph.D., F.S.S. was promoted as Reader in the Department of Statistics in January 1953.

48. The following teachers of the University were confirmed on satisfactory completion of their probation :

1. Sri M. Mariappa Bhat, M.A., Reader in Kannada.
2. Dr. K. N. Menon, Professor of Organic Chemistry.
3. Dr. M. Venkataraman, Senior Lecturer in Mathematics.
4. Sri S. Ramakrishna Sastri, M.A., Junior Lecturer in Telugu.
5. Sri T. E. Shanmugam, M.A., M.Litt., Senior Lecturer in Psychology.
6. Sri M. A. Dorairangaswamy, M.A., M.O.L. Senior Lecturer in Tamil.
7. Dr. G. S. Laddha, Reader in Chemical Engineering.
8. Sri B. C. Mohanty, M.Sc. (Leeds), Reader in Textile Technology.

49. The Syndicate considered various representations regarding the status of the Department of Indian Philosophy, and resolved that the scheme of rotating Professorships and Readerships be amended so as to include the Department of Indian Philosophy within the group of Departments coming under the Oriental Research Institute. Under the altered scheme which was approved by the Senate, Dr. T. M. P. Mahadevan was promoted as Professor in the Department of Indian Philosophy.

50. The following teachers were promoted as Professors during the year under the provision in Statute 6 of Chapter IX of the Calendar.

1. Dr. P. S. Sarma as Professor of Biochemistry.
2. Sri B. C. Mohanty, M.Sc. (Leeds), as Professor of Textile Technology.

51. The undermentioned Officers of the Central Leather Research Institute, Madras, who are associated with the teaching of Leather Technology to the students of the Alagappa Chettiar College of Technology, Guindy, have been appointed honorary teachers of the University :—

Sri B. M. Das, M.A., M.Sc., Honorary Professor of Leather Technology.

Sri Y. Nayudamma, B.Sc., M.S., Ph.D., Honorary Reader of Leather Technology.

52. Sri V. S. Jayaraman, Reader in General Engineering in the Alagappa Chettiar College of Technology, Guindy, whose services were lent to the Dr. Alagappa Chettiar College Endowment Trust for appointment as Principal of the Dr. Alagappa Chettiar College of Engineering and Technology, Karaikudi, till the end of the academic year 1952-53, rejoined duty in the University in April 1953.

53. Dr. George Kuriyan, Professor of Geography, who was on study leave for about a year returned and joined the Department in July this year. Permission was granted to him to attend the meetings of the General Assembly of the Provisional International Social Sciences Council of UNESCO at Paris and the annual session of the Institute of the British Geographers held at London.

Dr. Muhammad Husain Nainar, Professor in the Department of Arabic, Persian and Urdu, was awarded a scholarship by the Indian Council for Cultural Relations, New Delhi, for carrying on research work in Indonesia on the Cultural Relations between India and

Indonesia. He was permitted to accept the scholarship for a period of one year on an honorarium of Rs. 1,000 per mensem and sea passage to and fro. He availed himself of the leave from 1st July 1953 to take up the work.

Dr. V. Raghavan, Reader in Sanskrit who was awarded a scholarship by the British Council was granted study leave for a period of six months in continuation of the summer vacation. He is visiting Continental libraries for the study of Sanskrit manuscripts to help him in the work of the Catalogus Catalogorum. A grant for the expenses and other incidental charges connected with his tour was made by the Syndicate.

54. **Scholarships** :—The Government of India have continued the scheme for the award of Industrial training stipends this year also. The awards are as follows :—

Two in Chemical Engineering, one in Textile Technology and one in Leather Technology.

55. The Government of India have also continued the scheme for the award of Junior and Senior Research Scholarships for the advancement of research in the Departments of the University for this year also. The number of Junior and Senior Research scholars working at present in the various departments is as follows :—

Department.		*Number of*	
		Junior Scholars.	*Senior Scholars.*
1. Botany	...	3	5
2. Zoology	...	2	3
3. Chemistry	...	3	2
4. Biochemistry	...	3	3
5. Technology (Chemical Engineering)	...	...	3
6. Statistics	...	2	2
7. Mathematics	...	1	2

56. **Catalogus Catalogorum :**—The work on the Catalogus Catalogorum continues. The Department of Sanskrit is assisted in the work by two Research Assistants. Besides a grant of Rs. 6,000 from the Government of India, the following other Universities have made grants, *viz.* University of Poona Rs. 500 ; Nagpur University Rs. 300 ; Bombay University Rs. 250 and Utkal University Rs. 1,000 (for a period of ten years at the rate of Rs. 100 per year). The University records its appreciation of financial assistance given.

57. **Diploma and Certificate Courses :**—Diploma courses conducted in the University Departments were continued during the year.

The number of students attending the several courses is mentioned below :—

Diploma in Economics	I year	...	13
	II year	...	5
Diploma in Statistics	I year	...	40
	II year	...	8
Diploma in Politics and Public Administration	I year	...	22
	II year	...	15
Diploma in Indian Music	I year	...	10
	II year	...	6
Diploma in Anthropology	I year	...	7
	II year	...	4
Diploma in Librarianship		...	19
Diploma in Journalism		...	9
Diploma in Modern European Languages—			
French		...	5
German		...	18

Certificate in—

French	...	24
German	...	40
Anthropology	...	4
Librarianship	...	19

58. Specialists were invited to give lectures in the respective subjects for the Diploma courses in Journalism, Anthropology and Politics and Public Administration.

59. Detailed reports regarding the working of the Departments will be found in **Appendix D.**

60. **M.Sc. (by Examination)** :—The classes for M. Sc. courses are conducted in the University Departments with the help of the Professors of Honours Colleges in the City. Physical Chemistry classes are conducted at Loyola College. The Central Marine Fisheries Research Station, Mandapam, continued to give necessary facilities for additional instruction for students in Zoology.

The strength of the classes is as follows :—

Mathematics—Modern Algebra.		13
Physical Chemistry	...	2
Organic Chemistry	...	2
Biochemistry	...	2
Marine Zoology	...	2
Botany—Plant Pathology	...	3

61. **Inter-Collegiate Honours and Post-graduate Lectures** :—Courses of lectures for Honours and Post-graduate students of the Colleges in the City and Tambaram were arranged this year also. The Post-graduate Councils in the Humanities and Science subjects appointed by the Syndicate drew up the programme of the lectures with the assistance of Sub-

Committees for the several subjects. The teachers of the University and of Honours Colleges gave the lectures. The names of the members of the Councils are as follows :

The Humanities

Sri V. K. Ayappan Pillai, M.A. (*Convener*)
The Rev. G. C. Martin, M.A.
Dr. A. Sankaran.
Sri T. K. Venkataraman, M.A.
The Rev. F. Basenach, S.J.
Sri S. A. W. Bukhari, M.A.
Dr. R. Balakrishna.
Dr. T. V. Mahalingam.
Sri R. Bhaskaran, M.A.

Sciences

Dr. W. F. Kibble (*Convener*)
Dr. P. Bhaktavatsala Patnaik.
Dr. S. Gopalakrishnamurti.
The Rev. L. M. Yeddanapalli, S.J.
The Rev. C. Racine, S.J.
Dr. John P. Joshua.
Dr. T. S. Sadasivan.
Dr. C. P. Gnanamuthu.
Dr. K. N. Menon.

62. The teachers of the University also participated in Honours and Post-graduate teaching on an Inter-Collegiate University Co-operation basis.

63. **Research and other Publications** :—The undermentioned Research works, lectures, etc., were published during the year.

General—

1. A Guide book for students (Published by the Students' Information Bureau).

2. The Indian Year Book of International Affairs—Volume I—Editor: Dr. C.H. Alexandrowicz (Published by the Department of International and Constitutional Law).

Tamil Department—

Words and their Significance (A study in Tamil Linguistics)—by Sri R. P. Sethu Pillai, Professor.

Telugu Department—

Lives of Telugu Poets—by Sri N. Venkata Rao, Lecturer.

Malayalam Department—

1. Ayuḍabhyasam—by the late Dr. C. Achyuta Menon, Reader.
2. Keralolpathi—by Sri P. Krishnan Nayar, Lecturer (Retd.)
3. Kedara Mahatmyam—by Sri P. Krishnan Nayar, Lecturer (Retd.)

Kannada Department—

Vardhamana Puranam of Achanna—Editor—Sri M. Mariappa Bhat, Reader.

Sanskrit Department—

1. Bhatta Dipika—Volumes I and II—by Sri S. Subrahmanya Sastri, Lecturer.
2. A. Concordance of Kalidasa's Poems by Sri T. K. Ramachandra Ayyar, B.O.L.

Islamic Department—

Java as noticed by Arab Geographers—by Dr. S. Muhammad Husain Nainar, Professor.

Adaptations—

1. A Short History of India in Telugu—Edited by Sri V. Venkatarayan and Sri M. Bhakthavatsalam (Adaptation of the Book by Moreland and Chatterjee).

2. Man the Unknown (in Urdu) Edited by Janab Yousuf Kokan (Adaptation of the book by Alexis Carrel).

3. Man the Unknown (in Kannada) Edited by Sri U. Lakshminarayana Achar, B.Sc. (Hons.), L.T., and Sri K. S. Haridasa Bhatt, M.A. (Adaptation of the book by Alexis Carrel).

IX: OTHER GENERAL ITEMS OF IMPORTANCE

64. **Inter-University Board :**—The Vice-Chancellor continued to be the representative of the University on the Board. He was renominated to the Standing Committee of the Board for a further period of two years from the 1st April 1953. He continues to be the Chairman of the Committee.

6. The twenty-eighth Annual Meeting of the Board was held at Waltair in January 1953 and the Vice-Chancellor attended the meeting. The resolutions of the Board which have been communicated to this University are under consideration.

66. The twenty-ninth Annual Meeting of the Board and the Seventh Quinquennial Conference of Universities were held at Mysore from 21st to 24th December. Besides the Vice-Chancellor, Sri K. Balasubrahmanya Ayyar, B.A., B.L., M.L.C., and the Rev. L. D. Murphy, S.J., M.A., Members of the Syndicate, represented the University at the Conference.

67. **The Association of the Universities of the British Commonwealth :**—The Vice-Chancellor is the *ex-officio* representative of the University on the Association. The Inter-University Board renominated him to the Executive Council of the Association for a period of one year from October 1953.

68. The Seventh Quinquennial Congress of Universities was held at Cambridge in July 1953. Besides the Vice-Chancellor, Sri S. Govindarajulu Nayudu, LL.B., *Barrister-at-Law* and Sri Rm. Alagappa Chettiar, M.A., D.Litt., LL.D., *Barrister-at-Law* represented the University at the Congress.

69. **University Grants Commission :**—Pending legislation to have a statutory body, the Government of India has constituted a Commission with Sir A. L. Mudaliar, Vice-Chancellor as one of its members. One of the important functions of the Commission is the allocation of the grants from the Central Government to the Universities of India.

70. **Report of the Secondary Education Commission :**—The Secondary Education Commission of which the Vice-Chancellor was the Chairman, has submitted its report. The recommendations of the Commission as far as they relate to or have a bearing on University courses of study are under consideration by the University.

71. **Moral Instruction Course :**—As reported last year the Committee appointed by the Academic Council to draft a syllabus for moral instruction in colleges submitted its report. The syllabus was placed before the Academic Council in September but the Council did not approve of it.

72. **School of Language Studies:**—The Senate at its meeting held in March 1953 adopted the following resolution :—

> "RESOLVED that a Diploma course in Russian Language be instituted and the Academic Council be requested to suggest the scheme and course of study."

The Government of India has been addressed for financial assistance for starting a School of Language Studies with two sections, one in European Languages such as Spanish, Russian, and Italian besides French and German already taught and the other in the Asiatic Languages, in Burmese, Indonesian, Chinese and Japanese. The proposal is to have part-time Diploma courses in these languages.

73. **School of Architecture** :—The suggestion that a School of Architecture should be started in Madras was made by the All India Council for Technical Education a couple of years ago and since then the University had been taking steps to see how such a school could be started. A Committee of experts was appointed by the University and detailed proposals were drawn up. The scheme was submitted to the Madras Government but it has not been possible for the Government to give any assistance. The proposal has now been submitted to the Government of India.

74. **Change in election procedure** :—Certain objection petitions having been received in connection with elections to the Senate, the Syndicate appointed a Special Committee to consider the question of amending the Laws relating to election procedure. The recommendations of the Committee were approved by the Syndicate. Necessary amendments to the existing Statutes were adopted by the Senate at its meeting held in November. The main changes adopted are in regard to the submission of nomination papers and the declaration of those validly nominated on the date of the scrutiny of nominations itself if the number of nominations is equal to or less than the number of seats for which the election is held.

75. **University Extension Boards** :—Extension Boards were constituted in the following places and lectures were arranged:—

1. Calicut—Feroke.
2. Coimbatore.
3. Cuddapah.
4. Ernakulam—Thevara.
5. Kancheepuram.
6. Karaikudi—Sivaganga—Virudhunagar.
7. Kurnool.
8. Madanapalle.
9. Palghat.
10. Tellicherry.
11. Tirunelveli, Palayamkottai and Tuticorin.
12. Tiruchirapalli—Pudukottai.
13. Trichur.
14. Tirupati.
15. Vellore—Vaniyambadi and Tirupattur.

76. **Debates and Students' Seminars** :—Inter-Collegiate Debates in English, Tamil, Telugu, Kannada, Malayalam and Urdu were held in November in the various centres on a zonal basis. The students evinced keen interest in these debates. Certificates were awarded to the winners. The following were the winners:—

ENGLISH

First: Mr. M.A. Subramanian, Law College, Madras.
Second: Miss Adela Menzies, St. Agnes College, Mangalore.

TAMIL

First: Mr. Abdul Samad, Presidency College, Madras.
Second: Mr. K. Shanmugam, Government Arts College, Madras.
Best Woman Speaker: Kumari P. S. Mythili, Queen Mary's College, Madras.

TELUGU

First: Mr. G. Gurunatha Rao, Madras Christian College, Tambaram.
Second: Mr. M. Dharmaji Rao, Government Arts College, Anantapur.
Best Woman Speaker: Kumari K. Bala, Queen Mary's College, Madras.

KANNADA

First: Kumari K. Sunitha Chetty, Government Training College, Mangalore.
Second: Mr. K. Srinivasa Upadhyaya, Presidency College, Madras.

MALAYALAM

First: Mr. C. Gopalakrishnan, Sree Kerala Varma College, Trichur.
Second: Mr. K T. Raghavan, Guruvayurappan College, Kozhikode.
Best Woman Speaker: Kumari M. Sujatha, Ethiraj College for Women, Madras.

URDU

First: Mr. Syed Ghouse Mohiaddin, Government Training College, Kurnool.

Second: Mr. S. C. Md. Hussain, Islamiah College, Vaniyambadi.
Mr. Saleh Md. Sait, Government Arts College, Madras.

Best Woman Speaker: Shahnaz Begum, Voorhee's College, Vellore.

77. Under the programme of exchange of debating teams with the U.S.A., a debating team from America visited Madras in December. A debate was arranged with the students of the Madras University. This year's winners in the Inter-collegiate debate in English represented the University. For the selection of a team to visit the U.S.A. under the same scheme one of our students was deputed for the preliminary debate held at Delhi in November.

78. Mr. M. Ather Ali, Research student in Zoology and Secretary of the Research Scholars' Association was deputed to the International Students' Seminar held under the auspices of the World University Service at Mysore in the month of June.

79. **Visits :**—Dr. Daftry, former Prime-Minister of Iran and Dr. Heikal, former Education Minister of Egypt visited the University in January when an informal discussion was arranged in the University with teachers and students.

80. As in last year another party of 12 students accompanied by Dr. Richard L. Park, Professor of Political Science from the California University visited the University during their itinerary in India. They visited some of the Colleges in the City. Group meetings and discussions were arranged at the Colleges they visited. A party of Malayan students also visited the University and some of the Colleges in the City.

81. **Madras University Union :**—The Rev. L. D. Murphy, S.J., M.A., continued as Honorary

Treasurer of the University Union. The activities of the Union continued as usual and the grounds of the Union were utilised for the conduct of the Inter-Collegiate and Inter-University contests.

82. Inter-Collegiate Tournaments for men and women were held separately during the year under the auspices of the Union. The University also participated in the Inter-University Tournaments. A detailed report by the Honorary Treasurer is in **Appendix E.**

83. On a request from the Honorary Secretary, Madras Provincial Olympic Association, Madras, a grant of Rs. 800 was paid towards the expenses of two athletes of the Madras University who will represent Madras State at the National Track and Field Championship to be held at Jubbalpore in February.

84. **National Cadet Corps :**—For the first time the Corps entered the field of Social work and engaged in manual work. During camps they helped the villagers to make roads and clean wells. During their camp in September at Madras they constructed fifty rammed earth houses for the use of the slum dwellers in the City. Details of the Corps are in the report of the Circle Commander (**Appendix F**).

85. **Prizes for the encouragement of Publications of Modern works in Indian Languages—Original works :**—The subject for the prize for 1951-52 was "Astronomy for the Layman." The prize in Telugu was awarded to Sri A. V. Rama Rao.

86. "Elements of Mercantile Law" was the subject selected for 1952-53. Two theses were received in this subject, one in Kannada and the other in Malayalam. Sri P. J. Shetty was awarded the prize in Kannada. The thesis in Malayalam was not accepted.

87. The subject selected for 1953-54 is "A New Geography of India."

88. **Adaptations :**—The book selected for adaptation for 1951-52 was "Earthlore Geology without Jargon" by S. J. Shand. The adaptation in Kannada has been published.

89. **Nominations to outside Bodies and Delegations to Conferences, etc.:**—Srimathi Mona Hensman B.A. (Hons.), M.P., J.P., Convener of the Library Committee of the Syndicate, was appointed as University representative on the State Library Committee. The Rev. Dr. A. J. Boyd, and Sri Alexander Gnanamuttu, M.A., were nominated as representatives of the Syndicate on the General Body of the Madras University Hostel Construction Co-operative Society.

90. Sri Syed Abdul Wahab Bukhari, M.A., and Sri S. Shankar Raju Naidu, M.A., were nominated to represent the University on the General Body of the Indian Council of Cultural Relations, New Delhi. Sri R. P. Sethu Pillai represented the University at the Indian Languages Development Conference held at Poona under the auspices of the University of Poona, Dr. C. P. Gnanamuthu, Director, Zoology Laboratory attended the Symposium on Organic Evolution held at Delhi in March 1953. Professor C. H. Alexandrowicz, Head of the Department of Constitutional and International Law was deputed to attend the International Legal Conference held at Delhi in the last week of December.

91. The Vice-Chancellor represented the University at the Silver Jubilee Celebrations of the Andhra University held early in January 1953 and an address of greeting was presented at the function. Messages of greeting were sent to the Far Eastern University, Manila, Philippines at the installation of its fifth President, and to the Saint Francis Xavier University, Canada for its centenary celebrations.

92. The following teachers were deputed by the University to the annual Conferences during the year :

All India Textile Conference at Coimbatore :—

Sri S. Krishnamurti, B.Sc., B.Sc. (Tech.), Reader in Textile Technology.

All India Oriental Conference at Ahmedabad :—

Sri R. P. Sethu Pillai, B.A., B.L., Professor of Tamil.

Dr. T. V. Mahalingam, Reader in Indian History and Archaeology.

Sri P. Sambamurthy, B.A., B.L., Reader in Indian Music.

Sri M. Mariappa Bhat, M.A., L.T., Reader in Kannada.

Sri N. Venkata Rao, M.A., Senior Lecturer in Telugu.

Dr. S. Krishnan Nayar, Senior Lecturer in Malayalam

Sri S. Shankar Raju Naidu, M.A., Senior Lecturer in Hindi.

Sri S. Subramania Sastri, M.A., Junior Lecturer in Sanskrit.

Indian Science Congress at Hyderabad :—

Dr. G. D. Boaz, Professor of Psychology.

Dr. T. S. Sadasivan, Professor of Botany.

Dr. C. P. Gnanamuthu, Professor of Zoology.

Dr. P. S. Sarma, Professor of Biochemistry.

Dr. M. Santhappa, Reader in Physical Chemistry.

Dr. S. Swaminathan, Reader in Organic Chemistry.

Dr. P. R. Jagapathy Naidu, Reader in Geology and Geophysics.

Dr. D. V. Rajalakshman, Reader in Statistics.

Dr. U. R. Ehrenfels, Lecturer in Anthropology.

Dr. V. L. S. Prakasa Rao, Lecturer in Geography.

Annual Meeting of the Indian Academy of Sciences at Ahmedabad :—

Dr. G. N. Ramachandran, Professor of Physics.

Annual Meeting of the Indian Institute of Engineers at Hyderabad :—

Dr. G. S. Laddha, Reader in Chemical Engineering.

Indian Philosophical Congress at Baroda :—

Dr. T. M. P. Mahadevan, Reader in Philosophy.

Indian Political Science Congress at Sagar :—

Sri R. Bhaskaran, M.A., Reader in Politics and Public Administration.

Indian History Congress at Waltair :—

Dr. M. Arokiaswami, Lecturer in Indian History and Archaeology.

Annual Conference of the Indian Mathematical Society at Delhi :—

Dr. M. Venkataraman, Lecturer in Mathematics.

Annual Conference of the Indian Economic Association at Jaipur :—

Dr. D. Bright Singh, Lecturer in Indian Economics.

X. BUILDINGS AND ACCOMMODATION

93. As stated in the last report, the special repairs to the Senate House were completed.

94. The work on the construction of an additional canteen block and the improvement of the lavatory block behind the University Library buildings were completed. The Canteen building was opened for use

on the 26th September 1953. The building is being equipped and will be ready shortly.

95. It was decided that the University Union building on the Spur Tank Road be demolished as it was beyond repair. It is proposed to have a new building constructed.

96. Equipments ordered from abroad for the Departments of Physics, Organic Chemistry, Geology and Textile Technology are being received and it is expected that the Departments will be completely equipped before the middle of next year.

XI. UNIVERSITY LIBRARY

97. Sri R. Janardhanam, B.A., L.T., Dip. Ed. (Oxon.), Dip. L.S. (London), F.L.A., continued to be the Librarian.

Sri V. S. Muthiah, M.A., L.T., A.M.L.S. (Michigan), continued to be the Assistant Librarian.

98. **Reference Section** :—Bibliographical lists were prepared and supplied as usual to members and inquirers.

99. **Issue Section** :—4,407 members enjoyed the privilege of borrowing books from the Library. Of these, 556 joined during the year. There were 384 mofussil members. 1,65,575 books were consulted within the Library and 87,506 books were issued for home reading. The number of readers that used the Library during the year was 82,960.

100. **Hours of the Library** :—The Library worked from 8 a.m. to 8 p.m. on all days of the year including Sundays and other Public holidays.

101. **Binding Section** :—1,106 books and 1,261 periodical publications were bound during the year under report.

102. **Technical Section :**—3,597 volumes of books and periodicals, 52 theses and 25 research reports were accessioned, classified and catalogued during the year involving the preparation of 13,471 cards.

103. **Book Section :**—4,582 volumes were added to the Library of which 3,207 were by purchase and 1,375 by donation or exchange. Of these 1,567 are in the Departmental Libraries.

104. There are 1,31,984 volumes in the Main Library and 31,497 in the Departmental Libraries, thus making a total of 1,63,481 volumes. Besides these, the Library also possesses 2,236 maps, 40 paper manuscripts and 2 sets of photostat copies of Ramanujam's manuscripts. 50 more copies of theses submitted for research degrees of the University were placed in the Main Library thus making a total of 637 together with 16 final reports of research students.

105. Certain valuable books and periodicals were received as gifts from the following :—

1. Bharatiya Gnana Pita, Banaras.
2. The Hon'ble Justice A. S. P. Ayyar, I.C.S., Madras.
3. United States Information Service, Madras.
4. Miss Merril, American Fulbright Scholar.
5. National Christian Council, Nagpur.
6. Ministry of Education, Government of India.
7. The Hindu, Mount Road, Madras.
8. Sri C. Subrahmanya Ayyar, Retired Accountant-General, Mylapore, Madras.
9. Carnegie Endowment for International Peace, Washington.
10. Commonwealth Scientific and Industrial Research Organization, Australia.
11. The Ford Foundation, U.S.A.

106. **Periodical publications :**— 2,559 current periodical publications were received of which 2,138 were kept in the Main Library and the rest in the Departmental Libraries.

107. **Finance :**—The usual grant for the Library of Rs. 43,500 and the Departmental grant amounting to Rs. 26,164 were credited to the Library Account. The annual interest on investments amounted to Rs. 7,393.

108. The University is indebted to the several Government Institutions, publishers and individual donors for the free supply of their publications to the Library.

109. **Librarianship :**—13 students completed the Diploma Course in Librarianship and qualified for the Diploma. 20 students joined the course in the current year.

110. The Certificate Course in Librarianship was conducted during the months of April, May and June. 19 students joined the course and 16 qualified for the Certificate.

111. **Departmental Libraries :**—Sri D. V. Rajalakshman, M.A., M.Sc., Ph.D. (Manch.), F. S. S. (Lond.), Reader in Statistics has been appointed as Honorary Librarian for a period of 3 years from the 15th July 1953, and he assumed charge from Sri C. W. B. Zacharias, M.A., who was the Honorary Librarian till 14th July 1953.

112. During the year 981 volumes were added to the Departmental Libraries as against 1,250 in the previous year. The number of loose periodicals received during this year has risen from 1,352 to 1,453. Some books and reports published by the State Government and other authors totalling 25 were received as complimentary copies. All these were duly catalogued and made available for the users of the libraries.

113. Excluding the use of the current numbers of periodicals, which are kept on the Readers' tables for consultation, the number of books and periodical publications consulted and borrowed by the Teachers and Research students of the several departments during the year were 21,005 and 14,656 respectively, as against 20,278 and 14,367 for the previous year.

114. The Departmental Libraries continued to allow the facility of borrowing books to all users of the University Library and for this section of borrowers, well over 1,000 volumes were lent during this year.

115. These Libraries were not only used for consultation by the Teachers and Research workers of the University, but also by several students and members of the staff of the City Colleges and the public. Besides the regular Research workers of various departments, 2,875 visitors came to the Libraries during the year for purposes of consultation.

116. 55 Books belonging to departments were bound during the year and 215 old books were transferred to the General Library from the Economics and Philosophy sections of the Departmental Libraries.

117. Following the closure of the open access system it was found essential to provide a complete card index and a proper arrangement of volumes in the Libraries for easy reference. This work has been taken up without interfering with the normal functions of the Libraries. During this year, over 3,000 cards were prepared for the purpose of cataloguing the books. It was found necessary to formulate a general policy to retain the Departmental Libraries, to which every year over 1,000 new volumes and 180 volumes of periodicals are being added, in a reasonable size. In order to discuss this and several other matters regarding the re-organization of the Departmental Libraries two meetings of the Heads

of the Departments were held. The report of the Honorary Librarian is under consideration. At present the Departmental Libraries have about 18,000 books besides 3,000 volumes of periodicals.

XII. MADRAS UNIVERSITY STUDENTS' INFORMATION BUREAU

118. Mr. G. A. Dharma Rajan, M.A. (Oxon.), continued to be the Secretary for the Bureau during the year.

119. During the year there were :—

Written enquiries	...	1,471
Oral enquiries and interviews	...	1,210
Written replies and correspondence.		1,830
Applications sent	...	64
Admissions obtained	...	37

120. The following is a brief report of the work of the Bureau during the year :—

The reference library of the Bureau containing catalogues, guide books and pamphlets continued to grow. "The Guide Book for Students" was completed and published. A brief brochure introducing the book was circulated to agencies in India and outside where the book is likely to be useful. The incoming information was compiled under each branch of knowledge for reference and information.

121. The Bureau continued to keep its liaison with all important associations connected with education, training courses and careers.

122. Informal discussions were held with students in each branch of knowledge to assess further scope in studies and training and courses. It continued to give information and guidance to people applying for scholarships. Officers of armed forces, foreign educationists visiting Madras, bank officials, and information officers

were interviewed and discussions were held for exchange of information on the scope in each branch for young people.

123. The number of people making use of the Bureau has increased. Apart from students, teachers, parents, educationists, research workers, Government departments and University departments are making use of the information available at the Bureau.

XIII. ENDOWMENTS

124. The following endowments have been accepted by the Senate during the year :—

The Dr. Todla Ekambaram Prize :—

An endowment of Rs. 2,000 for instituting a prize of the value of Rs. 60 to be awarded to the candidate who qualifies for the M.Sc. Degree Examination (Branch IV) in Plant Physiology, securing a first class and stands first in the opinion of the examiners among the successful candidates each year;

or

to a candidate who qualifies for the B.Sc. (Hons.) Degree Examination in Botany (Branch IV) at the first appearance securing a first or second class and obtains the highest number of marks in the written papers and the practical examination taken together, in Physiology, Plant Pathology and Ecology.

The Dr. Todla Ekambaram Lectureship :—

An endowment of Rs. 6,000 for instituting a lectureship of the annual value of Rs. 200 on a subject in Botany with special reference to Plant Physiology.

125. (*a*) The following endowments have been accepted and the terms and conditions of award are under consideration :—

(1) An amount of Rs. 1,500 for instituting a prize of the annual value of about Rs. 50 to be named " The Rt. Hon'ble Sir C. Madhavan Nair, P. C. Prize " in the Faculty of Law.

(2) Institution of a gold medal in the Faculty of Medicine by Dr. A. Srinivasan.

The donor has handed over 10 gold medals to the University in the first instance which have been accepted subject to the condition that the capital towards the endowment is paid within a period of three years.

(*b*) An amount of Rs. 10,000 has been donated by Sri L. M. Chitale, Chartered Architect, Madras towards founding a Chair in Architecture in due course. The amount has been accepted and credited to University Funds for use when a University Department of Architecture is instituted.

126. **Theses Prizes:**—Ramanujam Memorial Prize in Mathematics 1952 :—Two theses have been received for the Prize and they are under consideration.

127. The V. C. Rangaswamy Memorial Prize in Economics 1952, was awarded to Srimathi N. Neelambal, for her thesis on " Rural Debt and Rural Finance in Madras State " approved for the M.Litt. Degree.

128. The following prizes have not been awarded during the year as no theses were received :—

(1) The Maharaja of Travancore Prize.

(2) The Gokhale Prize.

(3) The Sankara Parvathi Prize.

(4) Sir William Wedderburn Prize.

(5) The Andhra University Medallion.

XIV. LECTURES.

129. **Endowment Lectures :**—The following lectures were delivered during the year :—

1952-53	*Name*	*Subject*
1. The Maharaja of Travancore Curzon Lectures in Medicine.	Dr. C. Raghavachari, M.S., F.R.C.S.	Surgery of the rectum and anal canal.
2. The Maharaja of Travancore Curzon Lectures in Engineering.	Sri A. Srinivasan, B.E., M.Sc., M.S. (Illinois).	Transient Voltages and Power transformer Design.
3. The Maharaja of Travancore Curzon Lectures in Agriculture.	Sri C. Rajasekara Mudaliar, M.A.	Plant Introduction and improvement of grasses and legumes.
4. The Sir Subrahmanya Ayyar Lectures.	Sri C. S. Venkateswaran, M.A., D.Sc., F.Inst. P., F.A. Sc.	Light Scattering and the Raman Effect.
5. The Gokhale Lectures.	Sri T. Sankara Pillai, M.A., L.T., Dip. Geog., F.R.E.S. (Lond.)	Reforms of land holdings in India.
6. The Sankara Parvathi Lectures.	Sri V. Titus Varghese, M.A.	The Impact of Islam on South India.
7. The Principal Miller Lectures.	Sri T. M. P. Mahadevan, M.A., Ph.D.	Time and the Timeless.
8. Dr. Elizabeth Matthai Lectures.	Dr. T. K. Raman, M.D., D.T.M.	Beri Beri in the Mother and the Child.
9. The Rt.-Hon'ble Sir George Stanley Lectures.	Sri P. R. Krishnaswami, M.A., L.T.	The Poetic Sense in the English 19th Century Novel.
10. The Dr. Annie Besant Memorial Lectures.	Sri P. S. Nayudu, M.A.	Educational Research and the Reorganisation of Indian Education.

11. The Dr. Sir A. Lakshmanaswami Mudaliar Lectures in Medicine.	Dr. K. V. Krishnan, M.B.B.S., D.B., F.R.C.P., D.Sc., F.N.I., F.R.S. (E).	(1) Typhus fevers in India. (2) Clinical aspects of Scrub Typhus. (3) Epidemiological and Transmission aspects of Scrub Typhus.
1953-54.		
12. The Professor J. Franco Lectures.	Sri R. V. Krishna Ayyar, B.A., M.L.	The Concept of Legislative Independence.
13. The Sir Subrahmanya Ayyar Lectures.	Dr. E. K. Janaki Ammal, M.A., D.Sc.	The Evolution of the Flora of India.
14. The Dr. Sir A. Lakshmanaswami Mudaliar Lectures in Medicine.	Sir David Campbell, President, Medical Council and Dean, Aberdeen University.	The influence of the General Medical Council on Medical Education and Medical Ethics and the Policies or Philosophies that have been held in the treatment of disease from early until modern times.

130. Lectures—General.

Dr. Ralph J. Bunche, Formerly U.N. Mediator in Palestine and Nobel Peace Prize Winner.	Some Aspects of Current World Affairs.
Professor Mll. Suzanne Leclercq, Professor of Palaeobotany and Stratigraphy, University of Liege, Belgium.	The Story of the Reconstruction of Devonian Fern.
Dr. Norman Palmer, Chairman, Political Science, University of Pensylvania and Fulbright Visiting Professor.	International Regional arrangements. Recent Trends in Political Sciences.
Prof. W. A. Robson, B.Sc. (Hons.), Ph.D., LL.M., Professor of Public Administration, University of London.	Regionalism.

Dr. Myles Dillon, Professor in charge of Celtic Studies Section, Dublin School of Advanced Studies, Dublin.	Indo-European Culture in Ireland and India.
Dr. Jay B. Nash, Chairman of the Department of Physical Education, Health and Recreation, New York University.	Objectives to staff and students. Held a Seminar for Physical Directors and Physical Education Teachers.
Prof. Warren Ambrose, Professor at Massachusetts Institute of Technology.	Topology.

131. **Vacation Lectures :**—Vacation Lectures for the benefit of teachers and others were revived this year. On the suggestion of the Director of Public Instruction, Madras, courses of lectures were arranged at Madras, Madurai, Coimbatore and Tirunelveli on topics connected with teaching in December — January. The names of the Lecturers and the subjects of their lectures are given below :

1. Madras ..	Dr. G. D. Boaz, Professor of Psychology, University of Madras.	Mental Hygiene and School clinics.
2. Madurai ..	Miss Olive E. Nicholson, B.Sc., Superintendent of Industries Department, L.P.N. Institute, Rachanyapuram, Madurai District.	Arts and Crafts in Schools.
3. Coimbatore ..	Sri C. Doraiswami, M.A., M.Ed. (Boston), D.S.Ed. (Harward), Superintendent, Alipuram Jail, Bellary.	The Delinquent child or Juvenile Delinquency.
4. Tirunelveli ..	Sri S. Thiruvenkatachari, M.A., M.Ed., Professor of Social Studies, Dr. Alagappa Chettiar Training College, Karaikudi.	Teaching of Social Studies, Society and Social Studies.

XV. ACCOUNTS

132. The accounts of the University including those of the University Library for 1952-53 were prepared under Section 21 of the Madras University Act and audited by the Examiner of Local Fund Accounts, Madras.

133. Particulars of receipts and expenditure under the Fee Fund Account, for the year 1952-53 are as shown below:

	RS.	RS.
Receipts.		
A. General Administration.	4,04,808	
B. Examination Fees ...	17,89,478	21,94,286
Expenditure.		
A. General Administration charges ...	8,07,424	
B. Examination charges ...	10,86,545	18,93,969

134. As in previous years contributions were paid from the Fee fund to the Inter-University Board, India (Rs. 2,250), the Association of the Universities of the British Commonwealth (Rs. 1,560), National Cadet Corps (Rs. 9,700), University Union, (Rs. 12,000), Inter-University Tournaments and Sports (Rs. 20,000) and to Journals and Scientific Associations (Rs. 4,100).

135. A sum of Rs. 6,51,000 was granted by the State Government towards the annual recurring grant-in-aid of the general resources of the University and

this has been allocated to the several accounts as shown below :—

		RS.
Fee Fund Account	...	3,000
Vice-Chancellor's Salary Account	...	26,000
Travelling Allowance Account	...	40,000
Library Account	...	43,500
Research and Development Account.	.	3,000
Students' Information Bureau Account.		3,000
Economics Department Account	...	30,000
Indian History Department Account.		30,000
Mathematics Department Account	...	25,000
Statistics Department Account	...	6,000
Indian Philosophy Department Account	...	12,000
Psychology Department Account	...	9,000
Geography Department Account	...	8,800
Legal Studies Department Account	...	12,500
Physics Department Account	...	54,000
Chemistry Department Account	...	63,000
Botany Department Account	...	20,000
Zoology Department Account	...	50,000
Geology and Geophysics Department Account	...	40,000
Oriental Research Institute Account	...	87,200
Alagappa Chettiar College of Technology Account	...	85,000
		6,51,000

136. As the grant received from Government was not sufficient for the maintenance of some of the Departments, the following contributions were made from the University Funds during the year :—

		RS.
Botany Department Account	...	25,000
Statistics Department Account	...	3,000
Psychology Department Account	...	10,000

	RS.
Legal Studies Department Account ...	15,000
Geography Department Account ...	20,000
Oriental Research Institute Account ...	20,000
Travelling Allowance Account ...	40,000

137. The State Government sanctioned a non-recurring grant of Rs. 4,50,000 towards the institution of the Department of Physics and the Department of Geology and Geophysics payable in three annual instalments from the year 1951-52. Accordingly the second instalment of Rs. 1,50,000 for the year 1952-53 was received and credited to the respective accounts.

138. The State Government has also been pleased to sanction a non-recurring grant of Rs. 30,000 for the Textile Technology Section of Alagappa Chettiar College of Technology, during the year, 1952-53.

139. A sum of Rs. 34,000 towards Chemical Engineering Section and a sum of Rs. 25,700 for the Textile Technology Section have been received as recurring grants during the year, 1952-53 for the Alagappa Chettiar College of Technology, from the Union Government.

140. The Union Government has also been pleased to sanction the following grants during the year, 1952-53 :

Non-Recurring :	Rs. 6,70,000	for the Textile Technology Section— Rs. 4,00,000 for Equipments and Rs. 2,70,000 for buildings.
Do.	Rs. 50,000	for the Department of Experimental Physiology.

Recurring :	Rs. 4,200	first instalment towards grant for the salary of one Reader each in the Departments of Organic Chemistry, Botany and Statistics and one Lecturer each for the Departments of Zoology and Biochemistry.
Do.	Rs. 6,000	for Catalogus Catalogorum.

141. Government Securities, Ten-year Treasury Savings Deposit Certificates and Debentures in the Central Co-operative Land Mortgage Bank, of the total face value of Rs. 129,500/- were purchased during the year, against the different accounts of the University.

142. The Financial Estimates for the year 1953-54 were approved by the Senate at its meeting held on the 27th March 1953.

APPENDIX A

List of Colleges which have been granted further or fresh recognition/affiliation/approval, from the academic year 1953-54.

ARTS AND SCIENCE

Government Colleges.

(Further affiliation)

Name of the College.	*Courses or Subjects in which affiliation was granted.*
1. Government Arts College, Madras.	B.A., Part II—Sanskrit.
2. Queen Mary's College, Madras.	Intermediate, Part III—Tamil, Telugu, Sanskrit and Hindi (Higher Standard in each case).
3. Government Arts College, Cuddapah.	Intermediate, Part III, Logic (in lieu of Ancient History).
4. Government Arts College, Mangalore.	B.A., Part III—Gr. (iv-*a*) History and Economics.
5. Government Brennen College, Tellicherry.	B.A., Part III—Gr. (iv-*a*) History and Economics.
6. Government College, Mercara (Coorg).	(*a*) Intermediate, Part III—Indian History.
	(*b*) B.A., Part I—English; Part II—Kannada and Hindi; Part III Gr.(i-*b*)—Mathematics; Gr.(iii-*a*)—Philosophy; Gr. (iv-*a*)—History and Economics.

Aided and other Colleges.

(Further affiliation).

Name of the College.	*Courses or Subjects in which affiliation was granted.*
7. Loyola College, Madras.	Intermediate, Part III—Elements of Commerce & Accountancy.
8. The Women's Christian College, Madras.	(*a*) B.A. Part III Gr. (iii-*b*)—Philosophy (in lieu of Gr. (iii-*a*) Philosophy). (*b*) B.Sc., Part II—Physics and Chemistry (Main subjects) and Mathematics, Physics, Chemistry, Botany and Zoology (Subsidiary subjects).
9. Stella Maris College, Madras.	Diploma in Social Service.
10. Lady Doak College, Madurai.	B.A., Part III Gr. (iii-*b*)—Philosophy.
11. The American College, Madurai.	Intermediate, Part III—Elements of Commerce & Accountancy.
12. Thiagarajar College, Madurai.	(*a*) Intermediate, Part III—Ancient History and Gr.-D.—Tamil. (*b*) B.A., Part III Gr. (iii-*b*) Philosophy, Gr. (v) Tamil and cognate subject-Early South Indian History.
13. Salem College, Salem.	B.A., Part III Gr. (ii)—Physics (Main) with Mathematics (Subsidiary).

Name of the College.	*Courses or Subjects in which affiliation was granted.*
14. National College, Tiruchirapalli.	B.A., Part III Gr. (iii-*b*)—Philosophy (in lieu of Gr. (iii-*a*) Philosophy).
15. St. Joseph's College, Tiruchirapalli.	Intermediate, Part III—Elements of Commerce & Accountancy.
16. Sri Venkateswara College, Tirupati.	B.Sc., Part II—Zoology (Main).
17. Sree Kerala Varma College, Trichur.	Intermediate, Part III—Physics, Chemistry and Natural Science.
18. V.H.N. Senthikumara Nadar College, Virudhunagar.	B.A., Part III Gr. (ii)—Mathematics (Main) with Physics (Subsidiary). Gr.(v)—Tamil with Early South Indian History and B.Com. with Co-operation as Special subject and Part II—Hindi.
19. P. S. G. Arts College, Coimbatore.	Intermediate, Part III—Ancient History. Diploma in Social Service.
20. Sacred Heart College, Tirupattur.	Intermediate, Part III—Chemistry.
21. Sri G. V. G. Visalakshi College, Udamalpet.	Intermediate, Part III—Physics, Chemistry, Natural Science and Ancient History.
22. Mahatma Gandhi Memorial College, Udipi.	B.A., Part I—English, Part II—Kannada and Hindi, Part III Gr. (iv-*b*)—Economics and History.

New Colleges.

(Fresh affiliation.)

Name of the College.	*Courses or Subjects in which affiliation was granted.*
23. Fatima College for Women, Madurai.	Intermediate, Part I—English, Part II—Tamil, Malayalam and French and Part III—Mathematics, Physics, Chemistry, Natural Science, Indian History, Modern History and Logic.

Professional Colleges.

(Further affiliation).

24. Madras Medical College, Madras.	B.D.S. (Bachelor of Dental Surgery). Diploma in Venereology.
25. P. S. G. and Sons' Charities College of Technology, Peelamedu.	B. E.—Civil Engineering Branch.
26. Lady Willingdon Training College, Madras.	B.T.—Methods of Teaching and Learning (D) Telugu.
27. Government Training College, Kurnool.	B.T.—Methods of Teaching and Learning (D) General Science.
28. Agricultural College, Coimbatore.	Diploma in Horticulture.

Oriental Title Institution

(Further approval).

29. Raja's College of Sanskrit and Tamil Studies, Tiruvaiyyaru.	Siromani Br. (V) Sahitya.

Fresh Approval

30. Sree Santhalingar Tamil Kalloori, Perur Post (Coimbatore).	Vidvan 2 (d) Tamil.

APPENDIX B

Statement of the number of candidates who appeared for and passed the examinations and the number that qualified for the Degrees, Titles, Certificates and Diplomas of the University during the year 1953:—

Examination.	No. Examined.		No. Passed.		No. qualified for Degree or Title or Diploma or Certificate.	
	March/July	September	March/July	September	March	Sep.
Arts and Science						
Matriculation ..	2,171	...	455	...	455	...
Intermediate * ...	16,964	8,545	8,161	2,955	†7,728	2,015
B.A.—Part I ...	3,381	1,685	1,828	583		
B.A.—Part II ...	3,069	661	2,503	529	†1,771	823
B.A.—Part III ...	3,686	962	2,563	430		

† The figures in the last two columns for Intermediate and B.A. indicate the number of candidates who have qualified for the certificate or Diploma by passing the whole examination and those who have completed by passing Part or Parts of the examination.

* Details of number of candidates for the whole examination and under each part :

	Appeared. Mar.	Appeared. Sep.		Passed. Mar.	Passed. Sep.
Whole Examination ...	13,618	1,341		6,357	126
			in Part I	2,290	298
			in Part II	4,669	774
			in Part III	1,050	47
Part I ...	1,461	4,237	...	749	1,735
Part II ...	190	1,061	...	137	809
Part III ...	1,992	3,938	...	918	1,227

Examination.	No. Examined.		No. Passed.		No. qualified for Degree or Title or Diploma or Certificate.	
	March/July	Sep./Dec.	March/July	Sep./Dec.	March	Sep.
B.Sc.—Part I ...	1,781	731	1,128	400 }	1,010	286
B.Sc.—Part II ...	1,903	664	1,072	249 }		
B.A. (Hons.)—Preliminary ...	472	103	366	72	...	...
Do. Final ...	468	...	449	...	449 + 18*	...
M.A. ...	223	...	188	...	188	...
M.A. in Science Subjects ...	19	...	17	...	17	...
B.Sc. (Hons.)—Part I ...	89	8	82	8	...	...
Do. Part II (Main)...	132	...	115	...	115 + 14*	...
Do. Do. (Subsy.) ...	89	2	86	2	...	...
M.Sc. (by Examination) ...	8	...	8	...	8	...
Teaching						
B.T.—(New Regulations) (Written).	756	102	633	69 }	633	69
B.T.—(New Regulations) (Practical).	732	7	727	6 }		
B.T.—Shortened Course (Written).	40	15	36	15 }	36	15
B.T.—Shortened Course (Practical).	40	16	40	16 }		
M.Ed. ...	19	...	15	...	15	...
Law						
F.L.—(New Regulations) ...	848	268	473	109	473	109
F.L.—(Old Regulations) ...	39	...	13	...	13	...
B.L. ...	521	181	330	94	330	94
M.L. ...	13	...	3	...	3	...

* Recommended for the respective Pass Degree.

Examination.	No. Examined.		No. Passed.		No. qualified for Degree or Title or Diploma or Certificate.	
	March/July	Sep./Dec.	March/July	Sep./Dec.	March	Sep.
Medicine						
First M.B. & B.S.—Part I	15	5	7	3	...	...
First M.B. & B.S.—Part II	340	444	148	233	148	233
Second M.B. & B.S.—Part I	169	176	139	148	...	...
Second M.B. & B.S.—Part II	228	166	155	101	155	101
Final M.B. & B.S.—Part I ...	231	216	168	157	...	...
Final M.B. & B.S.—Part II...	375	315	179	148	179	148
M.D.—(N.R.) ...	63	...	9	...	9	...
M.S.—(N.R.) ...	36	...	8	...	8	...
M.Sc.—Anatomy ...	1	...	...	...	...	...
„ Physiology ...	1	...	1	...	1	...
M.Sc.—Pharmacology ...	1	...	...	...	...	...
„ Pharmacy ...	1	...	...	...	...	...
D.G.O. ...	10	11	6	6	6	6
D.O. ...	6	6	4	2	4	2
D.L.O.—Part I ...	3	5	3	4	...	...
D.L.O.—Part II ...	3	6	2	2	2	2
B.S.Sc.—Part I ...	3	2	1	1	...	...
B.S.Sc.—Part II ...	3	1	2	...	2	...
B. Pharmacy—Preliminary ...	14	2	11	...	11	...
B. Pharmacy—Final—Part	7	11	2	5	...	...
B. Pharmacy—Final—Part II	5	6	3	3	3	3

Examination.	No. Examined. March/July	No. Examined. Sep./Dec.	No. Passed. March/July	No. Passed. Sep./Dec.	No. qualified for Degree or Title or Diploma or Certificate. March	No. qualified for Degree or Title or Diploma or Certificate. Sep.
Medicine—(*contd.*)						
Inter. Science in Nursing ...	13	9	4	9	4	9
B.Sc. (Nursing) ...	11	6	5	4	5	4
Diploma in Tuberculosis ...	7	...	6	...	6	...
Technology						
B.Sc. (Tech.)—Part I ...	54	...	42	...	...	...
B.Sc. (Tech.)—Part II ...	45	...	37	...	37	...
Engineering						
First B.E. ...	465	137	313	105	313	105
Second B.E. ...	401	211	185	146	185	146
Third B.E. ...	345	157	192	90	192	90
B.E. Final ...	329	123	200	89	200	89
Agriculture						
B.Sc. (Ag.)—First Examn.	94	...	84	...	84	...
B.Sc. (Ag.)—Second Examn.	78	...	69	...	69	...
B.Sc.—(Ag.) Final Examn.	55	...	47	...	47	...
Veterinary Science.						
B.V.Sc.—Preliminary ...	80	31	43	29	43	29
B.V.Sc.—Intermediate—Part I.	85	51	30	32	...	...
B.V.Sc.—Intermediate—Part II.	88	50	38	38	38	38
B.V.Sc.—Final—(New Regulations).	74	37	31	23	31	23

Examination.	No. Examined.		No. Passed.		No. qualified for Degree or Title or Diploma or Certificate.	
	March/July	Sep./Dec.	March/July	Sep./Dec.	March	Sep.
Commerce						
B.Com.—Part I ...	870	251	641	140		
B.Com.—Part II ...	881	164	723	129	608	200
B.Com.—Part III ...	1,109	404	675	155		
B.Com. (Hons.)—Part I ...	37	12	25	9	...	...
B.Com. (Hons.)—Part II ...	22	...	22	...	22	...
Oriental Learning						
B.O.L.—Part I ...	38	25	21	13	...	...
B.O.L.—Part II ...	20	...	10	...	10	...
B.O.L. (Hons.)—Part II ...	3	...	2	...	2+1*	...
Oriental Titles—						
Preliminary ...	663	...	467	...	...	...
Final ...	467	...	360	...	360	...
Entrance Test to Oriental Title Course.	605	...	363	...	...	...
Entrance Test to Intermediate —Group-D	255	...	99	...	...	...
Sangita Siromani—Final ...	1	...	1	...	1	...
Certificates and Diplomas						
Certificate in Modern European Languages—						
French ...	18	...	11	...	11	...
German ...	30	...	25	...	25	...

* Recommended for the Pass Degree.

Examination.	No. Examined.		No. Passed.		No. qualified for Degree or Title or Diploma or Certificate.	
	March/July	Sep./Dec.	March/July	Sep./Dec.	March	Sep.
Certificates and Diplomas— (*contd*).						
Diploma in Modern European Languages—						
French ...	5	...	4	...	4	...
German ...	10	...	7	...	7	...
Diploma in Economics ...	2	...	1	...	1	...
Diploma in Indian Music ...	14	...	12	...	12	...
Diploma in Politics and Public Administration.	7	...	5	...	5	...
Certificate in Librarianship...	18	...	17	...	17	...
Diploma in Librarianship ...	13	...	13	...	13	...
Diploma in Statistics ...	16	...	12	...	12	..
Diploma in Journalism—January 1953.	6	...	2	...	2	...
Certificate in Anthropology...	2	...	1	...	1	...
Diploma in Anthropology ...	3	...	3	...	3	...
Diploma in Physical Education.	18	...	17	...	17	...
Total ...	46,335	16,990	27,004	7,361	16,159 + (33)	4,639

APPENDIX C

Names of persons who have been declared qualified for Research Degrees :—

Master of Letters

(M. Litt.)

(By Thesis)

1. Sry. S. Vijayalakshmi, B.A. (Hons.), for her thesis, " A Short History of the Madras Secretariat with Special Reference to its Organisation and Procedure."

(By Thesis and Examination)

2. Sry. P. V. Sulochana, M.A., for her thesis, " Concept values in Indian Thought."
3. Mr. C. R. Swaminathan, M.A., for his thesis, " Kumaradasa's Janakiharana."
4. Mr. E. Ittuthran, M.A., for his thesis, " Advaita of Anandhabodha."
5. Mr. M. S. Gopalakrishnan, M.A., for his thesis, " Mother Goddess : A Regional Study (Madras and Malabar)."
6. Mr. K. N. Balakrishnan Nayar, M.A., for his thesis, " Exchange control with Special Reference to India."
7. Mr. R. Matrdatta Varma, B.A. (Hons.), for his thesis, " Trade Disputes in Madras since 1940."
8. Sry. V. K. Savithri, M.A., for her thesis, " Tariff Policy of India since 1921."
9. Mr. Mohamed Anwar-ul-Haq, M.A., for his thesis " Muslim Political Thought between Eighth and Fifteenth Centuries."

Doctor of Philosophy

(Ph. D.)

(By Thesis)

1. Sry. A. K. Vasumathi, M.A., for her thesis, "The separation of the Judiciary from the Executive with Special Reference to Madras."

2. Mr. V. S. Padmanabhan, B.Sc., for his thesis "Role of Solvent in Chemical Reactions."

3. Mr. P. N. Rangachari, M.Sc., for his thesis, "Carbohydrate Metabolism in *Asphgillus niger* with reference to Citric Acid formation."

4. Mr. K. T. Mathew, B.Sc. (Ag.), for his thesis, "Studies on the Black Rot of Coffee."

5. Mr. P. Gopinatha Kartha, B.Sc. (Hons.), for his thesis, "Crystal Physics — Studies in X-Ray Structure Analysis."

6. Mr. S. P. Adinarayanayya, M. Litt., for his thesis, "Colour Prejudice in India and England.— A Psychological Study."

7. Mr. D. Ramaswami, M.Sc., for his thesis, "Chemistry of Compounds of Nitrogen."

8. Mr. M. V. Subba Rao, M.Sc., for his thesis, "Lattice Product of Normed Topologies."

9. Mr. L. K. Ramachandran, M.Sc., for his thesis, "Some Studies on Proteins, Protein Constituents and their Iodinated Derivatives"

10. Mr. P. Subrahmanya Sastri, M. Litt., for his thesis, "Studies in the Psychological and Metaphysical Pre-suppositions of Sanskrit Literary Criticism."

Doctor of Philosophy—(*contd.*)

(*By Thesis and Examination*)

11. Mr. K. Ramakrishnan, B.Sc. (Hons.), for his thesis, "Soil Conditions and Fungal Wilts in Plants—The Distribution and Behaviour of Fungi in Soils."

Master of Science

(M. Sc.)

(*By Thesis only*)

1. Mr. V. D. Prasada Sastri, B.Sc., for his thesis, "Magnetic Investigations in Crystals."
2. Mr. A. Sundarababu, M.A., for his thesis, "Setting up a Radar and Radar Measurements and Design Technique."
3. Mr. S. Venkataraman, B.Sc., for his thesis, "Molecular Optics."
4. Mr. K. Kochugovindan, B.Sc., for his thesis, "Studies on Lypotropic Factors."
5. Mr. T. A. Sundararajan, B.Sc., for his thesis, "Phospho Proteins."
6. Mr. R. Muthukrishnan, B.Sc., for his thesis, "Saprophytic activity of Fusaria in Wilt-Sick Soils."
7. Mr. R. Narayanaswami, B.Sc. (Hons.), for his thesis, "Studies on a brackish water bivalve of Madras."
8. Mr. K. Ramalingam, M.A., for his thesis, "Trematodes of Madras."
9. Mr. K. Rajagopalan, B.Sc. (Ag.), for his thesis, "Studies on Drought Resistance in Rice."
10. Mr. G. Ranganathan, B.Sc., for his thesis, "Carbohydrate Metabolism."
11. Mr. P. Balram Menon, B.A., for his thesis, "On the Seasonal incidence of Arthopods of Veterinary Importance at Izatnagar, Bareilly, U. P."

Master of Science—(*contd.*)

(*By Thesis only*)

12. Mr. I. M. Mathai, B.Sc. (Hons.), for his thesis, " Olefine Halogen Reaction."

13. Mr. B. Padmaraju, B.E., for his thesis, " Reaction Type Synchronous Motor."

14. Mr. S. Gopalakrishnan Nayar, B.Sc. (Hons.), for his thesis, " On the Embryology of the Isopod erona."

(*By Thesis and Examination*)

15. Sry. N. Maragathavalli, M.A., for her thesis, " Studies in Significance Tests."

16. Mr. Joseph Kuriakose, B.Sc. (Hons.), for his thesis, ' The catalytic Investigation of the Monophenol from raw commercial Cashewnut Shell Liquid."

17. Mr. C. S. Vaidyanathan, B.Sc., for his thesis, " Studies on Plant Arginase."

18. Mr. M. Sudhakara Prabhu, B.Sc., for his thesis, " Biology of the ribbon fish and ovary as indicator of spawning period in some fishes."

19. Mr. S. Ramamurti, M.A., for his thesis, " Plankton Studies."

20. Mr. V. Ramachandran, B.Sc. (Hons.) for his thesis, " The Geology of the Mahadevi Hills and Environs—Salem-Tiruchi Districts."

21. Mr. M. O. Tirunarayanan, B.Sc., for his thesis, " Studies on Biotin."

22. Mr. B. S. Tyagarajan, M.A., for his thesis, " Studies in the Chemistry of Quinolizine Derivatives."

23. Mr. G. Venkataraman, B.Sc. (Tech.), for his thesis, " Studies in the Processing of Vegetable Oils."

24. Mr. T. A. Poonnen, B.Sc. (Tech.), for his thesis, " Flow of Suspensions and Sludges."

APPENDIX D.

Reports on the work of the Teaching and Research Departments for 1953.

1. DEPARTMENT OF INDIAN ECONOMICS

I. Staff

Professor

Sri R. Balakrishna, M.A., Ph.D. (Lond.)

Reader

Sri C. W. B. Zacharias, M.A.

Lecturer

Sri D. Bright Singh, M.A., Ph.D. (from 7th January 1953).

II. General

The Professor completed his projected work on the Measurement of Productivity in Indian Industry and prepared it for the Press. He was also engaged in an appraisal of the Five-Year Plan published by the Government of India.

He continued to serve as a member on the Textile Enquiry Committee appointed by the Government of India. He submitted an interim note incorporating his ideas on the field study made by the Committee.

He was also appointed during the year a member of the Research Programmes Committee of the Planning Commission.

The Reader completed his work on Agricultural Planning in Madras and sent it for publication. He was also interesting himself in the agricultural aspects of the Five Year Plan for India.

The Lecturer took up such of those items in the quinquennial programme which remained unfinished owing to Dr. Poduval relinquishing his post in the University.

III. Topics on which research work is in progress

Professor :

An Appraisal of India's Five-Year Plan.

Reader :

An Assessment of the Effect of Devaluation in India.

Lecturer :

A Study of the Price Trends in India since 1939.

IV. Works completed during the year

Professor :

1. Five Chapters of his book on Measurement of Productivity in Indian Industry.
2. Advertising Technique (for publication in the Souvenir of the Madras Economics Students' Convention, 1953).
3. A Note on the Cotton Textile Industry in India (Submitted to the Textile Enquiry Committee).

Reader :

1. Three Chapters of his book on Agricultural Planning in Madras.
2. Paper on India and the International Monetary Fund and the International Bank for Reconstruction and Development (to be published in the Madras University Journal).

Lecturer :

1. Monetary Standard in India (for Indian Economic Journal).
2. Income-tax as a Balancing Factor in Indian Federal Finance (for All-India Economic Conference).

3. The Concept of Mature Economy (for the Souvenir of the Madras Economics Students' Convention, 1953).

V. Works and Articles published during the year

Professor :

1. The Measurement of Productivity in Indian Industry (Book published by the University of Madras).
2. Under-development, a World Economic Liability (published in the Year Book of International Affairs, Madras University, 1953.)
3. Petering out of Private Enterprise (Commerce Annual Review Number, 1953).
4. Advertising Technique (published in the Souvenir of the Madras Economics Students' Convention, 1953).
5. Productivity Comparisons in Indian Industry (Indian Journal of Economic Conference Number, 1953).

Reader :

1. Agricultural Planning for Madras (Book published by the University of Madras).
2. Problems of the Implementation of the Agricultural Plan in the Five-Year Plan (Indian Journal of Agricultural Economics, March, 1953).

Lecturer :

1. Monetary Standard in India (Indian Economic Journal, July, 1953).
2. The Concept of Mature Economy (Souvenir of the Madras Economics Students' Convention, 1953).

VI. Research Students

Three students who submitted their theses for the M. Litt. Degree in January, 1953, were declared qualified for the Degree. One student has submitted his thesis in August 1953 and the result is awaited.

Of the 4 stipendiary students in the Department, the term of two students terminated during the year. One of them has submitted the final report. The remaining two students whose terms were extended for a second year are working on the following subjects :

International Economic Co-operation.

Growth of Trade Union Movement in India.

During the year five probationary students joined the Department, but only two, working on the following subjects, are continuing at present :—

The Economic and Financial Condition of the Residual State of Madras.

Sugar Industry in India.

Of the six non-stipendiary students in the Department in the beginning of the year, five ceased to be students during the year. One student, who has been permitted to change his registration from M. Litt. to Ph. D., is continuing for a third year.

Four non-stipendiary students were admitted during the year. Of them only two are continuing at present. The subjects on which they are working are given below :

Industrial Welfare in Organized Industries in Madras State since 1940.

Land Reform Movement in India.

VII. Diploma Courses

In the Diploma Course in Economics there are five students in the II year and 11 students in the I year.

For the Diploma Course in Journalism 9 students were admitted during the year, but only 7 have applied for the Diploma Examination to be held in January, 1954.

VIII. Other Information

The Professor delivered two lectures a week to the B.Sc. (Tech.) Class at the Alagappa Chettiar College and one lecture a week till the end of the academic year to the Diploma course in Politics and Public Administration. He also delivered a course of 8 special lectures to the Diploma Course in Journalism. He delivered a course of two Inter-Collegiate lectures on 'Decline of Capitalism.'

The Professor prepared for the University a scheme of research investigations on behalf of the Research Programmes Committee of the Planning Commission. He attended the meetings and participated in the tours of the Textile Enquiry Committee of the Government of India. He also attended a meeting of the Research Programmes Committee of the Planning Commission. He attended the All-India Economic Conference at Trivandrum as a delegate of the University and organized the Conference as the General Secretary. He administered the Departments of Journalism and Economics during the year. He also tendered evidence before the Press Enquiry Commission on the working of the Diploma Course in Journalism.

The Reader delivered two lectures a week to the Diploma classes and a course of 20 lectures to the Diploma Course in Journalism. He delivered two Inter-Collegiate lectures on India's Relations with the International Monetary Fund and the International Bank for Reconstruction and Development. He was Honorary Librarian of the Departmental Libraries till the 15th July, 1953.

The Lecturer delivered 3 lectures to the Diploma Course in Economics and in Politics and Public Administration. He delivered two Inter-Collegiate lectures on 'Contra-cyclical Budgetary Policy.'

The Professor and his colleagues jointly prepared replies to the Questionnaire issued by the Taxation Enquiry Commission appointed by the Government of India. The Reader also independently prepared replies to some of the questions and submitted them to the Commission.

2. DEPARTMENT OF INDIAN HISTORY AND ARCHAEOLOGY

I. Staff

Professor

Vacant.

Reader

Sri T. V. Mahalingam, M.A., D. Litt.

Lecturer

Sri M. Arokiaswami, M.A., Ph.D.

The demise of Prof. V. R. Ramachandra Dikshitar on the 24th November, 1953, is reported with deep regret.

II. Topics on which research is in progress

The Reader continued to work on his book on the History of South India from 1565 to 1803. The first draft of three chapters of the book has been completed.

During the year he edited at the instance of the National Archives of India about 15 Tamil documents from the National Archives. However the work was dropped after a reference to the National Archives as it was found in the course of further work on the documents that they were of little or no historical importance.

The Lecturer completed writing 12 chapters of his book on the History of the Kongu country and was engaged in the collection of material for the remaining chapters of his book.

III. Works completed and works published during the year

The Selected Inscriptions in the different South Indian languages, *viz.*, Tamil, Telugu, Kannada and Malayalam prepared under the General Editorship of the Professor was published in one volume. The second edition of the Mauryan Polity was also published. 376 pages of Vol. III of the Purana Index have so far been printed.

The Reader had completed his work on South Indian Polity. The work is now in the Press and 128 pages have been printed so far. The Tamil portion of the Malayalam Inscriptions of *Selected Inscriptions of South India* was edited by the Reader and published by the University.

Reader

Papers published

1. Two Merchants of Madras (Madras University Journal).
2. A Bana chieftain of the 13th century (Journal of Oriental Research).

Papers awaiting Publication

3. Sanskrit studies in South India.
4. Two Eastern Ganga inscriptions from Conjeevaram.
5. The grant of Fort St. George to the East India Company—a study.
6. Maravarman Sundara Pandya and Rajarajamagadai Nadalvan.

Lecturer

Papers published

1. Skandapura (Journal of the Bombay Branch of the Royal Asiatic Society).
2. A new chapter in Rashtrakuta History (Journal of the Madras University).
3. Origin of the Dravidians (Tamil culture).

Papers awaiting publication:

4. Some South Indian Bronzes.
5. Cholan Purvapattayam.
6. The India St. Thomas saw.

IV. Research Students

There were on the whole eight students in the year including stipendiary, non-stipendiary and probationary students. The subjects they are working on are as follows :—

1. Nayaks of Ikkeri.
2. Economic Background of English Settlements in India in the 17th century.
3. History of the Sri Sailam Temple.
4. Madura through the ages.
5. Jainism in South India.
6. Land Revenue Administration in the Madras Province.
7. Some minor dynasties of Rayalaseema.

V. Diploma Courses, etc.

The Reader delivered lectures on South Indian History to the Language Honours students under the Inter-Collegiate scheme and also on Modern Indian Administration to the students of the Diploma Course in Politics and Public Administration.

The Lecturer delivered lectures to Honours students in Islamic History on Mughal Administration and Bahmani kingdom.

VI. Conferences

The Reader presided over the Dravidian Languages and Culture section of the All-India Oriental Conference held in October 1953 at Ahmedabad and delivered his Presidential Address.

The Lecturer attended the Waltair Session of the Indian History Congress and read a paper on the Ummattur Chieftaincy.

3. DEPARTMENT OF POLITICS AND PUBLIC ADMINISTRATION

I. Staff

Reader

Sri R. Bhaskaran, M.A.

Sri G. Sundararajan, B.A.,B.L., G.D.A., Part-time Lecturer in Commerce, lectured on Accounts to the Diploma classes till March 1953. After the summer recess, Sri R. Dayanidhi Reddi, B.A., G.D.A., L.T., was appointed Part-time Lecturer in Commerce.

II. Topics on which research is undertaken now

1. Hindu Political ideas of the later middle ages.
2. Amendment of the Indian Constitution.
3. Unions and Associations of Government Employees.
4. Jail administration with special reference to Women and Children.
5. Welfare Administration in Madras.
6. The growth of the Legislatures in Madras.
7. Political trends as reflected in Tamil periodicals.
8. Budget Administration in India.

III. (a) Works completed during the year

1. Supplement on Indian Constitutional Development.
2. Third section of the Elements of Politics.

(b) Papers prepared during the year

1. Envoys and Ambassadors in Ancient India.
2. Linguistic States.
3. The scope of Social Science.
4. Marxism in India.
5. Liberalism in India.

IV. Research Students

A Research Fellow worked in the Department from 15th October, 1952 to 14th October 1953 on The Madras Legislature, its beginnings and early development.

One stipendiary research student completed his work on Personnel Administration in Madras.

The M. Litt. Degree was awarded this year for the thesis on the History of the Madras Secretariat by a former research student.

Another former research student has submitted a thesis for the Ph.D. on 'The Principles of Non-violence.'

One stipendiary research student, two probationary students and two non-stipendiary students are now working in the Department for the M. Litt. Degree.

V. Diploma classes

(a) At the Diploma Examination held in July, 1953, 10 candidates registered themselves, 7 appeared and 5 passed. The strength of the II year class is 12. Twenty-five students joined in July 1953, of whom three are one-year students.

(b) Lectures

The Reader delivered (i) four lectures a week on Politics and Public Administration to Diploma classes (ii) a course of two lectures in the Inter-Collegiate Scheme and (iii) a course of twelve lectures on Political Theory to the Diploma classes in Journalism.

VI. Conferences

The Reader participated in the Annual Conference of the Indian Council of World Affairs held in Madras in April, 1953.

He was elected General Secretary and Treasurer of the Indian Political Science Association at whose Conference at Sagar he represented the University as its delegate and took part in discussions of Marxism and the Relation between the Indian Union and its States.

4. DEPARTMENT OF GEOGRAPHY

I. Staff

Professor

Sri George Kuriyan, B.A., B.Sc., Ph.D., (London)

Senior Lecturer

Sri V. L. S. Prakasa Rao, M.A., D. Phil.

Junior Lecturer

Vacant.

II. General

The Professor who left India on leave on 2nd July 1952, for the U. S. as a Visiting Professor to the University of Pennsylvania, returned on the 5th July, 1953 and re-joined the Department. He again left India on the 9th December, 1953, for France and the U. K. to attend the meetings of the General Assembly of the

Provisional Social Sciences Council of the UNESCO in Paris, and the meetings of the Institute of British Geographers in England and returned early in January, 1954. The Senior Lecturer was in charge of the Department during the Professor's absence.

Dr. George Kuriyan is the only representative of all the Asiatic countries on the Executive Committee of the International Geographical Union and he has been re-elected Vice-President of the Union for a second term, till 1956. He has also been co-opted as a member of the Provisional Social Sciences Council of the UNESCO in June 1953.

III. Teaching

The B.A. Honours, B.Sc. Honours, and Post-graduate classes in Geography were conducted on a co-operative basis, the Queen Mary's College, the Presidency College and the University Department of Geography being the three participating units. In July 1953, ten students were admitted to the III Honours and five for the Post-Graduate courses, and they were assigned as follows :—

III Honours :	Presidency College	...	6
„ „	Queen Mary's College	...	4

Post-Graduate Course :

Presidency College	...	3
Queen Mary's College	...	2

In addition to the administrative work in connection with the conduct of the Honours classes, the Professor had lecture classes for about 18 hours a week, besides practical and field work. He was giving guidance for the Final Honours and Post-graduate students in the preparation of their dissertations and field work reports.

The Professor gave a course of two lectures on the "Geographic aspects of the Partition of India" at the Geographical Institute of the University of Zurich on the 14th December 1953.

IV. Senior Lecturer

The Senior Lecturer was doing some of the work done by the Professor when he was on leave. He had 17 hours of lectures a week till March 1953, and 11 hours a week from July 1953. He has also been assisting the Professor in giving guidance to the Honours students in the preparation of their dissertations and field work reports.

The Senior Lecturer took a batch of 20 students on a field excursion to Tiruttani between the 23rd and 26th January 1953. He went to Chidigumala village (Narasapatam taluk) to conduct a Land Use Survey and he collected rock and soil specimens from the region around Visakhapatnam.

He also attended the Indian Science Congress held at Lucknow during the first week of January 1953.

V. Work in Progress

Professor

1. The Development of Irrigation and Hydro-electric power in India, since Independence.
2. The Million Cities of India.
3. Jointly with the Senior Lecturer, a paper is being prepared on "Location of Regional Capitals with reference to Andhra Desa."

Senior Lecturer

1. Transport Patterns in India.
2. Distribution of Population in Andhra Desa;

VI. Publications

Professor

1. A Paper on " Geography in the U.S. " published in the Indian Geographical Journal, Volume 28, Nos. 1 and 2.

2. A Report on the Trans-Continental Excursion of the International Geographical Congress —published in the Indian Geographical Journal, Volume 28, Nos. 3 and 4.

3. A Paper on the "Population Problem of India" has been forwarded to the American Geographical Society for publication in the " Focus."

4. A joint paper by the Professor and Senior Lecturer on the " Regional Setting of the Andhra Desa " was published in October 1953, in the Silver Jubilee Number of the Andhra Chamber of Commerce.

Senior Lecturer

1. Rational Grouping of the Districts of the Madras State—Published in the Indian Geographical Journal, Vol. 28, Nos. 1 and 2.

2. Geography in Secondary Schools—Published in the Indian Geographical Journal, Vol. 28, Nos. 3 and 4.

3. Relative Relief and the Distribution of Waste Land in the Naravagedda Basin (Abstracts, Indian Science Congress, Lucknow, 1953).

4. A Note on the Land Utilisaton Survey in India—Symposium (Abstracts—Indian Science Congress, Lucknow, 1953).

5. DEPARTMENT OF INDIAN PHILOSOPHY

I. Staff

Professor

Sri T. M. P. Mahadevan, M.A., Ph.D. (promoted as Professor from 1st July 1953).

II. Topics on which research is in progress

A study of early Post-Sankara Advaita with special reference to Suresvara.

III. Work published and works completed

'Time and the Timeless' (Principal Miller Endowment Lectures delivered in the month of March 1953).

English translation of Sambandha-vartika.

IV. Number of Research Fellows and Students

There were on the whole one Research Fellow and seven Research Students during the year. Out of them two were stipendiary research students and one Research Fellow. The rest of them worked on a non-stipendiary basis. The Research Fellow is continuing her study of the Conception of Mind in Indian Philosophy. Of the two stipendiary research students, one is working on the Ethical Philosophy of Mahatma Gandhi, while the other is engaged in making a critical study of Scepticism.

Mr. W. H. Harris, American Fulbright Scholar, joined the Department as a casual student and is making a study of the works of Ramanuja.

V. Lecture Classes

The Professor has been taking the Inter-Collegiate classes in Indian Philosophy, every Tuesday, for the Honours and Post-graduate Students of Madras Christian College, Pachaiyappa's College and Vivekananda College.

VI. Other Information

The Professor delivered the Principal Miller Lectures in the month of March 1953.

He gave three special lectures at Annamalai University on the theme, 'The Quest for the Eternal' in the month of February 1953.

He delivered one lecture on Saiva Siddhanta at Allahabad University and a course of three lectures on the Idea of God in Saiva Siddhanta at Banaras Hindu University in December 1953, under the Tiruppanandal Mutt Foundation. He attended the 28th Session of the Indian Philosophical Congress held at Baroda as a delegate of the University.

6. DEPARTMENT OF PSYCHOLOGY

I. Staff

Professor

Sri. G. D. Boaz, M.A., D.Phil. (Oxon.).

Senior Lecturer

Sri T. E. Shanmugam, M.A., M.Litt.

II. General

The Professor attended the meetings of the Committee and scrutinized articles for the Tamil Encyclopaedia. He also attended the Indian Science Congress held at Lucknow during the first week of January 1953.

Teaching :

M.Ed. Degree Course—Has five hours of lecture and practical classes for the M.Ed. Students (per week)—Educational Psychology—(till April 1953).

Has two afternoon sessions a week for the M.Ed. Students from July 1953.

B.A. (Honours)—Has two hours of lecture work for the students " On Schools of Psychology " (January-March 1953). " On Abnormal Psychology " (July-December 1953).

Study Seminar :

Two or three hours a week for the research students and staff.

III. Topics in which research is in progress

Standardisation of Aptitude Tests for some Professional Courses.

Collecting material for a book on " Diagnostic and Remedial work in schools."

Collecting material for a book on " Abnormal Psychology."

Collecting and interpreting data for the subject on " Social Tensions."

IV. Research Students

There is one probationary research student, two M.Ed. students and one stipendiary research student and three non-stipendiary research students working in the Department at present. One American scholar finished her work and submitted her thesis for the Ph.D. Degree in August 1953. One student joined the department as a probationary research student, but resigned it.

Subjects of research

1. Problems of Vocational Guidance.
2. Studies on the Bringing up of Children.
3. Some Problems on Adjustment and mal-adjustment in Criminals.
4. Psychometrics among College students.
5. Mother-Child Relationship.
6. Personality studies with reference to the inmates in Vigilance Home.

V. Senior Lecturer

He is working on the TAT and is conducting practical tests.

He has three hours of practical classes for the M.Ed. students per week, and two or three hours of seminar classes per week.

Contributed one article and scrutinized three articles for the Tamil Encyclopaedia.

Supervising the research work of a M.Ed. student.

VI. Topics on which Research work was completed and published

1. A Personality Invntory—Its Reliability and Validity—Journal of the Madras University (Science) 1953. (*In the Press*).
2. A Study of Emotional Instability in Adolescents—Journal of the Madras University (Humanities) 1952-53.
3. In Collaboration with the Professor, completed a paper on " Thermatic Apperception Test and Cultural Factors "—Awaiting Publication.

VII. Topics on which research work is proceeding

1. Frustration and Anxiety.
2. Symptoms and Syndromes of Emotional Instability in Adolescents.
3. Reaction Time and Emotional Instability.

7. DEPARTMENT OF MATHEMATICS

I. Staff

Reader

Sri V. S. Krishnan, M.A., M.Sc., B.T., D.Sc. (Paris).

Senior Lecturer

Sri M. Venkataraman, M.A., Ph.D.

II. Topics on which Research is in Progress

Lattice Algebra, Topology of Uniform Spaces, Algebraic Topology, Linear Spaces, Number Theory.

III. Works published and Works completed

A paper 'On Closure Operations on c-Structures' and another 'On Uniconvergence Spaces' have been published by the Reader ; a paper 'On Maps of Topological Spaces' has been submitted for publication by the Senior Lecturer. Research students have submitted papers on 'Skew Symmetric Tensors and Region Complexes', 'A Characterisation of Boolean Algebras' and on 'BS-Representations of Lattices.'

Abstracts of papers have been sent to the Conference of the Indian Mathematical Society by the staff and one student.

IV. Research Fellows and Students

By July a junior scholar of the Government of India, a special research scholar and a University scholar completed their scholarship terms and left the Department; the first completed a Ph.D. thesis, the second was working on a book on 'Higher Arithmetic' and continues the

work at Calcutta, and the third who was working on 'Operators in Hilbert Space' has left with a scholarship to the Columbia University to complete his investigations.

A senior scholar of the Government of India who has been working on topics in 'Lattice Theory', has submitted two papers during the year and is also studying algebraic topology.

A senior scholar of the Government of India is working on questions of convergence in uniform spaces.

A junior scholar of the Government of India is studying topics in Number Theory and a University scholar is working on Linear Spaces.

V. Classes and Lectures

Lectures for the M.Sc. class in Algebra and Quantum Mechanics were conducted till April by the Reader, Senior Lecturer and Professor C. Racine of Loyola College. The only student of the class passed out with a first class.

Lectures for the M.Sc. class on the 'Theory of Structures' were conducted by the Reader, Senior Lecturer and Prof. C. Racine from July. There are twelve students in the class now.

The Senior Lecturer also takes classes for the Diploma in Statistics.

The Reader gave a course of six lectures on 'Convergence and Continuity' in July and August under the scheme of Inter-Collegiate lectures.

For the benefit of research scholars the Reader gave lectures on 'Dimension Theory and General Topology' till April and on 'Combinatorial Topology' from September; and the Senior Lecturer gave a course of lectures on 'Linear Spaces' and a course on 'Integration.'

VI. Other Information

The Reader continues to do reviewing of articles for the "Zentral blatt fur Mathematik" and the Senior Lecturer helps in the editorial work of the "Mathematics Student." The Senior lecturer took part in a symposium in Measure Theory, Quantum Mechanics, etc., at the Annamalai University in May.

In December the University invited Professor Warren Ambrose of the Massachusets Institute of Technology, who had been a guest Professor at the Tata Institute at Bombay, to deliver a course of lectures on Topics in Topology at the Madras University. Lectures on relations of Topology to Differential Geometry were delivered by Prof. Ambrose from 15th to 18th December.

8. DEPARTMENT OF STATISTICS

I. Staff

Reader

Sri D. V. Rajalakshman, M.A., M.Sc., Ph.D. (Manchester), F.S.S., Dip. Econ. (promoted as Reader from 1st January, 1953.)

He has also been appointed as Honorary Librarian, Departmental Libraries, for a period of three years from 15th July 1953.

An additional post of Lecturer has been created for the Department and Mr. G. S. Lingappaiah, M.Sc., has been appointed, on probation for a period of three years, from 11th July 1953.

II. Topics on which Research is in progress

The work during this year covers different topics in pure and applied Statistics, although it is directed,

in general, towards the study of stationary stochastic processes. The topics on which work is in progress are :—

1. " Distributions of useful Statistics for application from normal and non-normal universes."
2. " Empirical study of observational time-series."
3. " Non-linear models for autoregressive schemes."
4. " Sequential tests for autoregressive models."
5. " Tests of significance when the population is of finite number of classes."
6. " Some problems in composite hypothesis."
7. " Stochastic schemes with time-trending co-efficients."
8. " Ranking in Analysis of Variance."

III. Works Completed and Works Published

1. Thesis on " Autoregressive Time-Series and Allied Problems " for the M.Sc. Degree.
2. " Stochastic Processes." Contribution to the Symposium (for Proceedings of the Indian Science Congress).
3. " Analysis of Time-Series—Linear Autoregressive models for price data " (for Sankhya).
4. " A statistical study of annual prices of food-grains for 135 years " (for University Journal).

Works Published :

1. " Goodness of fit tests for simultaneous autoregressive series. " (Journal of Royal Statistical Society).

2. " Statistical Problems in Econometric Models" (Abstract of a Symposium published in Econometrica).
3. " Application of the variate-difference method to analysis of two time-series" (Madras University Journal)
4. " A Non-parametric two sample test" (Madras University Journal).

IV. Research Scholars

At the beginning of the year there were 4 Government of India Research Scholars. Of these, two Junior Scholars completed their terms on 2nd July and 23rd September, 1953, and left the Department. One joined the department on probation as Junior Scholar from 9th October, 1953. The Senior Research Scholar is continuing the second year of his award. The nature of their work is covered in topics 1 to 6 given in item II above.

University Research Student: One student joined as probationary research worker from 30th September 1953, and the nature of his work is given in topic 7 of Item II above.

V. Lecture Classes :

Under the Inter-Collegiate Scheme, the Reader gave a course of lectures on " Quantitative Approach in Social Sciences" for the final Honours students in Economics and another course on " Statistical Inference" for the final Honours students in Mathematics.

In order to provide sufficient scope for practical work, an additional hour has been added this year for the senior class of the Diploma in Statistics. Of a total of seven hours of teaching for the Diploma course per week, two are taken by the Reader and the remaining five by the Lecturer.

There are 40 students in the I year and 8 in the II year of the Diploma in Statistics. Of the 16 students who appeared for the Diploma in Statistics Examination in July, 1953, 12 were declared qualified to receive the Diploma, 2 of them with distinction.

VI. General :

The Reader, as a delegate of the University, attended the 40th Session of the Indian Science Congress and took part in different symposia in the Statistics section besides reading a paper. He also rendered the necessary help in the analysis and interpretation of experimental data to research workers of different science and art sections.

9. DEPARTMENT OF CHEMISTRY

(i) Organic Chemistry

I. Staff

Professor

Sri K. N. Menon, M.Sc., Ph.D., A.R.I.C., A.I.I.Sc., F.A.Sc.

Reader

Sri S. Swaminathan, B.Sc. (Hons.), Ph.D., A.I.I.Sc.

II. Topics on which Research is in progress :

1. *The Quinazoline group* :—

In this field the synthesis of (*a*) 4-aryl-, (*b*) 3-aryl-, (*c*) 2-phenyl-, (*d*) 2-phenacyl-, and (*e*) 4-phenacyl-derivatives was actively pursued and about 30 new compounds were obtained.

2. *The Benzo-quinolizines* :

Norlupinane is the parent molecule of lupine alkaloids. Its symmetry about the nitrogen atom can be changed by substitution. The work on hand is to

synthesise benzo-norlupinane molecules with the ultimate object of getting these synthetic compounds tested for physiological action.

3. *Cyclic* 1 : 3 *diazalines*

The object of this work is the preparation of substituted glyoxilino-pyridines for antimitotic evaluation.

4. *Constitution of the sesquitepene-Longifoline* :

5. *Synthesis of* 11-*oxygenated non-aromatic Steroid, Hormones* :

6. *Synthesis of Ayldicyandiamides* :

III. (a) Works published

Since the last report the following papers were published :—

1. Glyceride Composition of the Seed Fat of " Cerbera Odollam Gaertn "—M. R. Subbaraman, J. Madras University, 1952, B XXII, 223.

2. Aromatisation and Isomerisation of Bicyclic Terpenes—K. N. Menon, J. Madras University, 1953, B XXIII, 92.

3. Petroselinic Acid - Occurrence in some Umbelliferae Seed Fats - K. N. Menon (with P. S. Raman), Proceedings of the Indian Academy of Sciences, 1953, 38, 128.

4. Heterocyclic Compounds, Part I. Experiments in Isatins—K. N. Menon (with P. S. Raman)—Proc. Ind. Acad. Sci., 1953, 38, 132.

(*b*) **Works completed**

1. Heterocyclic Compounds, Part II. 4-Aryl Quinazolines.
2. Heterocyclic Compounds, Part III. Some quinazolines.

3. Heterocyclic Compounds, Part IV. 2-methyl-3-argyl-4 quinazolones.

4. Heterocyclic Compounds, Part V. Some Glyoxilino-pyridines.

IV. Research Students

	Stipendiary	*Non-stipendiary*
University Research students	1	2
Govt. of India Junior Research scholars.	1	...

V. Lecture Classes

Two candidates joined the M.Sc. (Organic Chemistry) course. The Professor delivered inter-collegiate lectures to B.Sc. (Honours) students during the first and second terms.

(ii) Biochemistry

I. Staff

Professor

Dr. P. S. Sarma, B.Sc. (Hons.), M.Sc. Ph.D. (Wisconsin), F.R.I.C. (London), F.A.Sc.

Senior Lecturer

Sri E. R. B. Shanmugasundaram, M.A., B.Sc.

Research Assistant

Sri R. Radhakrishnamurthy, B.Sc. (Hons.).

The Head of the Department was promoted as Professor from 1st November, 1953. The Senior Lecturer was appointed from 1st July, 1953.

II. General :

The Indian Council of Medical Research renewed the grant for the scheme on the investigation of the "Enzymic Role of Inositol" for the fourth year in

succession, while the Council of Scientific and Industrial Research renewed the grant for the third year for investigations on "Thyroidal Activity of Thyroglobulin and other Iodoproteins." Further, from the grants received for expansion of activities in the department, from the Government of India, an Isotope research unit has been set up for biochemical investigation with radioactive isotopes of Iodine, Phosphorus and Carbon. The total strength of research workers in the laboratory at present is 13, including five Government of India Research Scholars and four Research Assistants in various research projects. One student was awarded during the year the Smith Mundt and Fulbright Fellowship for research in the United States of America and another the National Research Council Fellowship for research in the Dominion of Canada.

III. Topics on which Research is in progress :

1. Studies on the biochemical role of Inositol and its relationship in this respect to biotin. Radioactive phosphorus (P32) has been employed in this investigation.
2. Studies on the goitregenic action of groundnut cake, bromides and fluorides using Radioactive Iodine (I 131).
3. Iodination studies with Phenylalanine and the uptake of Radioactive Phosphorus by the thyroid and other tissues of rats fed on different diets.
4. Microbiological assay of the members of the vitamin-B complex in shark liver and other fish liver residues.
5. Studies on the physiological function of biotin with particular reference to its influence on the biosynthesis of other members of the vitamin-B group.

6. Studies on the biosynthesis of Ascorbic acid using radioactive glucose and fructose.

7. The influence of vitamins on nitrogen metabolism.

8. Studies on the inter-relationship among vitamins and amino acids particularly between Nicotinic acid and Tryptophane.

9. Purification and study of enzyme-kinetics of phospho-protein phosphatase.

10. Investigation of excretory pigments during vitamin deficiency by spectrophotometric and paper chromatographic methods.

III. Works published during the year and works completed :

1. Plant Tumours *vs.* Animal Tumours, J. Mad. Univ. B. vol. 22, p. 268, 1952, appeared in 1953.—L. K. Ramachandran.

2. A new method for the isolation of Hydroxylysine; J. Sci. Ind. Res. vol. 12B, p. 4, 1953.—L. K. Ramachandran & P. S. Sarma.

3. The Determination of Hydroxylysine in Proteins; J. Sc. Ind. Res. vol. 12B, p. 9, 1953.—L. K. Ramachandran.

4. The Influence of Vitamins in Nitrogen Metabolism I—The Influence of para-Aminobenzoic acid, Sulphanilamide & Folic acid on amino acid changes during germination. J. Sci. Ind. Res. vol. 12B, p. 157, 1953.—V. M. Sivaramakrishnan & P. S. Sarma.

5. Studies on the inter-relationship among vitamins and amino acids I—Synthesis of Nicotinic acid from the isomers of Tryptophane by mammalian liver slices and germinating green gram (Phaseolus aureus) J. Sci. Ind. Res. vol. 12B, p. 245, 1953.—E. R. B. Shanmugasundaram & P. S. Sarma.

6. Studies on Biotin-Part V : Influence of Biotin on gammexane-inositol relationship in Neurospora crassa; J. Sci. Ind. Res. vol. 12-B, p. 251, 1953.—M. O. Tirunarayanan & P. S. Sarma.

7. The Re-activity of phenolic groups in Egg albumin towards Iodine; J. Sci. Ind. Res. vol. 12B, p. 309, 1953.—L. K. Ramachandran & P. S. Sarma.

8. Inhibition Analysis : J. Mad. Univ. vol. 23, p. 40, 1953.—V. M. Sivaramakrishnan & P. S. Sarma.

9. Paper chromatographic separation of B-group vitamins; Current Science vol. 22, p. 209, 1953.—R. Radhakrishnamurthy & P. S. Sarma.

10. Tryptophane metabolism in Rice moth larva (corcyra cephalonica st.) Nature, vol. 172, p. 627, 1953.—T. K. Sundaram and P. S. Sarma.

11. Role of Biotin in the conversion of Tryptophane to Nicotinic acid : Current Science, vol. 22, p. 211, 1953.—E. R. B. Shanmugasundaram, P. S. Sarma & M. O. Tirunarayanan.

12. Purification and properties of phosphoprotein phosphatase from ox spleen; Biochemical Journal, London (*In Press*).—T. A. Sundararajan & P. S. Sarma.

13. Role of Inositol in the activity of alpha amylase ; Indian Journal of Medical Research (*In Press*).—S. Ramachandran & P. S. Sarma.

14. Colorimetric estimation of 3 : 5 Di-iodotyrosine; Analyst, London (*In Press*).—N.R. Moudgal, L. K. Ramachandran & P. S. Sarma.

15. Circular paper chromatography study of Tryptophane metabolism in Rice moth larvae (Corcyra cephalonica st.) Proc. of the Soc. Exp. Biol. & Med., New York (*In Press*).—T. K. Sundaram, R. Radhakrishnamurthy, E. R. B. Shanmugasundaram and P. S. Sarma.

16. Distribution of phosphoprotein phosphatase in mammalian tissue, Current Science. (*In Press*).—T. A. Sundararajan & P. S. Sarma.

17. Studies on the inter-relationship among vitamins and amino acids-Part II-Influence of v: 3 : 4 (ureylene cyclohexyl) butyric acid, aminopterin, and w-methyl pantothenic acid in the biosynthesis of nicotinic acid in germinating green gram ; J. Sci. Indi. Res. (*In Press*).—E. R. B. Shanmugasundaram & P. S. Sarma.

18. Adenosine triphosphate breakdown by liver extracts ; Jour. Mad. Univ. section B. No. 3, 1953. (*In Press*).—H. C. Friedmann and P. S. Sarma.

IV. No. of Research Fellows, students and Government of India scholars and the nature of their work :

There are three Senior and two Junior Government of India scholars, one University stipendiary

Research Student, and one non-stipendiary Research student. They are engaged in the following investigations :—

1. A study of pigments excreted during vitamin deficiency by spectrophotometric and paper chromatographic methods.

2. Influence of vitamins and anti-vitamins on nitrogen metabolism in germinating seedlings.

3. Purification of phosphoprotein phosphatase and a study of its action on different phosphoproteins.

4. Estimation of B group of vitamins in shark liver and other fish liver residues by microbiological and chemical methods.

5. An investigation of the biochemical function of biotin.

6. Study of the different factors which influence the biogenesis of ascorbic acid.

7. Biological investigation of the poor quality of reconstituted milk.

One student received the Ph.D. Degree and three others their M.Sc. Degree during the year.

V. Lecture classes

Lectures for the M.Sc. (Biochemistry) classes started this year. Two students are attending the course.

The Professor delivered six lectures on "Proteins, Peptides, Amino Acids, and Enzymes" to the Honours and Post-Graduate students of Presidency and Loyola Colleges during the first term.

VI. Other information

The Professor attended the annual meeting in Mysore, of the Biochemical Research Committee of the Council of Scientific & Industrial Research. He also attended the 40th session of the Indian Science Congress held at Lucknow as a delegate of the University. He was re-elected there to the membership of the Executive Committee of the Society of Biological Chemistry (India). He has been nominated during the year as a member of the Biochemical Research Committee of the Council of Scientific & Industrial Research for a second term of three years.

(iii) Physical Chemistry

I. Staff

Reader

Sri M. Santhappa, Ph. D. (London). Ph. D. (Manchester).

II. (a) General

The Reader was appointed in August 1952. While he is trying to build up and equip a permanent Research Laboratory for Physical Chemistry in the campus of the Alagappa Chettiar College of Technology, he is using one of the laboratories of the College as a temporary measure to carry out his present investigations. The Reader is planning to construct a good laboratory for research especially in high polymer-Chemistry.

(b) Topics on which research is in progress

1. Kinetics of addition, polymerization of vinyl monomers by free radicals in solution by thermal as well as photochemical methods with particular reference to chain transfer reactions.

2. Photopolymerization of vinyl monomers in solution by radicals produced from (*a*) electron transfer reactions in the ion pairs $Fe^{3+}X^{-}$ (X = OH, halogen, SCN etc.).; (*b*) dissociation of peroxides and hydroperoxides.

3. Reaction between hydrogen peroxide and hydrazine and a study of oxidation of manganous and Magnesium ions by ceric ions.

Work on the above topics has been started recently.

III. There is one University stipendiary Research Student who is doing research in chain transfer reactions in addition to polymerization in solution.

IV. The Reader has delivered during August and September, 1953, six lectures as a part of inter-collegiate lectures on the Theory of Resonance and its application to chemical problems. Fifth Honours students of Chemistry from Presidency College as well as Loyola College, numbering about fifty attended the classes. A course of twelve lectures is also being delivered on "Polymerization" for the benefit of the Research Student in Physical Chemistry.

V. The Reader took part in the symposium arranged by the Association of Leather Technologists in January 1953, and read a paper on "THE DRYING OILS." He attended the 40th Session of the Indian Science Congress at Lucknow as a delegate from the University.

10. DEPARTMENT OF BOTANY

I. Staff

Director (Professor)

Sri T. S. Sadasivan, M.Sc., Ph.D., (Lond.), F.A.Sc., F.B.S.

Reader

Sri C. V. Subramanian, M.A., Ph.D.
(Promoted Reader on 1-7-1953).

Senior Lecturer

Sri K. Ramakrishnan, B.Sc. (Hons.), Ph.D.
(Appointed from 10-12-1953).

II. Topics on which research is in progress

1. Fungus floras of South Indian virgin and cultivated soils.
2. Soil conditions and root diseases with special reference to Fusarioses.
3. Rhizosphere microfloras of Indian crop plants in relation to soil-borne diseases.
4. Effect of Trace Elements on Fungi.
5. Studies on Fungi Imperfecti from Madras.
6. Growth factor requirements of Fungi.
7. Morphology and Taxonomy of South Indian Fungi.
8. Studies on Ascomycetes of South India.

III. Works published during the year and works completed

(a) *Works published during the year* :—

1. " Growth-factor requirements of *Pellicularia koleroga* Cooke in pure culture " by K. T. Mathew.
2. " Soil bacteria and Chlamydospore formation in *Fusarium solani* " by C. S. Venkatram.
3. " Studies on South Indian Fusaria : II. Fusaria isolated from black cotton soils " by C. V. Subramanian.

4. " Fungi Imperfecti from Madras. III. *Beltraniella* gen. nov " by C. V. Subramanian.

5. " Soil conditions and root diseases. VI. Germination of conidia of *Fusarium vasinfectum* in micro-element amended soils " by C. B. Sulochana.

6. " Soil conditions and root diseases. VII. Response of cotton plants to micro-element amendments and its relation to disease development " by C. B. Sulochana.

7. " Fungi isolated and recorded from Indian Soils " by C. V. Subramanian.

8. " The Fungi of India—A second supplement " by K. Ramakrishnan and C. V. Subramanian.

9. " A preliminary study of some inter-varietal crosses and hybrid vigour in *Hibiscus esculentus* L." by K. S. Venkataramani.

10. " Studies in Allergic Asthma, Part I : Hypersensitivity to field beans (*Dolichos*) and House Dust " by T. S. Sadasivan, K. Lakshminarayanan, K. S. Sanjivi, R. Subramanian and N. Krishnaswamy.

11. " A note on the determination of reducing sugars " by K. V. Srinivasa Pai.

12. " Soil conditions and root diseases. VIII. *Rhizosphere microflora* of home of the important crop plants of South India " by V. Agnihothrudu.

13. " Fungi Imperfecti from Madras IV." by C. V. Subramanian.

14. " *Petrakomyces*, A new genus of the Sphaeropsidales " by C. V. Subramanian and K. Ramakrishnan.

15. "Carbon, nitrogen and pH relationships of growth of soil Fusaria in culture" by K. V. Srinivasa Pai.

16. "Relation of nitrogen to growth and sporulation of *Fusarium vasinfectum* Atk." by C. V. Subramanian.

17. "On the floral structure of *Scyphostegia*" by B. G. L. Swamy.

18. "Comments on *Ascarina alticola* Schlechter" by B. G. L. Swamy.

19. "*Sarcandra irvingbaileyi*, A new species of vesselless dicotyledon from South India" by B. G. L. Swamy.

20. "Some observations on the embryology of *Decaisnea insignis* Hook et Thoms" by B. G. L. Swamy.

21. "On the relation of *Chloranthus Kiangsiensis* to the genus *Chloranthus*" by B. G. L. Swamy.

22. "A Taxonomic revision of the genus *Ascarina* Forst" by B. G. L. Swamy.

23. "On the nature of the spore-appendage in *Neottiospora* Desm" by C. V. Subramanian and K. Ramakrishnan.

24. "Rooting of cut shoots of cotton in culture filtrate of *Fusarium vasinfectum*" by R. Kalyanasundaram.

25. "Fungi Imperfecti from Madras. V. *Curvularia*" by C. V. Subramanian.

26. "Some observations on blossom biology and fruit formation in *Hibiscus esculentus*" by K. S. Venkataramani.

27. "Thiamine, its intermediates and growth of *Corticium microsclerotia* (Matz) Weber" by K. T. Mathew.

28. " *Ascomycetes* from South India. I." by K. Ramakrishnan.

29. " Mechanism of *Fusarium* wilts of plants " by K. Lakshminarayanan.

(b) *Works completed*:

30. " *Ascomycetes* from South India. II." by K. Ramakrishnan.

31. " *Plagionema,* a new genus of the Sphaeropsidales " by C. V. Subramanian and K. Ramakrishnan.

32. "*Koorchaloma,* a new genus of the Tuberculariaceae " by C. V. Subramanian.

33. " Bio-assay of heavy metals by *Aspergillus niger* —Sensitivity of a new Strain " by L. Saraswathi Devi.

34. " Fungi Imperfecti from Madras. VI " by C. V. Subramanian.

35. " Studies on South Indain Fusaria. III. Fusaria isolated from some crop plants " by C. V. Subramanian.

36. " A simple technique in paper disc Chromatography " by K. Lakshminarayanan.

37. " Soil conditions and root diseases. IX. Fungai ecology of cultivated fields Techniques " by A. T. Zachariah.

38. " Rhizosphere microflora of plants growing in different ecological habitats " by E. John Chinnayya and V. Agnihothrudu.

39. " The enzymic activity of *Macrophomina phaseoli* (Maubl.) Ashby " by K. Radha.

40. " Studies on the Black rot of Coffee I " by K. T. Mathew.

41. "Studies on the Black rot of Coffee II" by K. T. Mathew.

42. "Soil conditions and root diseases IX. *Neocosmospora*" by T. S. Sarojini.

IV. Research students and Government of India scholars

1.	University Research Students:	(Stipendiary).	3
	Do.	(Non-Stipendiary).	1
2.	Government of India Scholars:	(Senior).	4
	Do.	(Junior).	3

Nature of work engaged in: Topics (1) to (4) and (6) as given under II of this Report.

V. Lecture classes-strength, number of passes, etc.

Lectures for the M.Sc. (Plant Pathology) Students.

Strength : 3 students in the present year.

Number of passes : 2 out of 2 students of last year.

VI. Attendance at Conferences, etc.

Professor T. S. Sadasivan (*Director*) attended the 40th session of the Indian Science Congress Association at Lucknow, and also the Indian Council of Agricultural Research Science Committee's Meeting (Plant Diseases) at Srinagar in October.

11. DEPARTMENT OF ZOOLOGY

I. Staff

Director (Professor)

Sri. C. P. Gnanamuthu, M.A., D.Sc.

Reader

Sri G. Krishnan, M.A., M.Sc., Ph.D., (Manchester).

Lecturer

Sri S. Krishnaswami, M.Sc. (from 1-7-1953)

Research Assistant

Sri V. O. Sebastian, M.Sc.

I. Topics on which research is in progress :

1. Director : Parasitic copepods and sand living isopods.

2. Reader :—Cuticle of marine arthropods and physiological studies of the blood in relation to cuticle development.

3. Lecturer : Free living Copepods of Madras and respiration of Crustacea.

4. Research Assistant : Studies in Ascidians: metamorphosis, asexual reproduction, etc.

5. Research Students:
   - (*a*) Studies on Teredinidae of Madras Coast.
   - (*b*) Study of the Anatomy and development of *Dasychone.*
   - (*c*) Deposition of fat in various tissues of fishes —seasonal fluctuations.
   - (*d*) Studies on the development and growth of some marine sedentary organisms.
   - (*e*) Studies on the Nematodes of Madras.
   - (*f*) The cuticle of Crustacea.
   - (*g*) Studies on the Sinus gland of Crustacea.
   - (*h*) Biology of Cirripedia.
   - (*i*) Studies on the Sponges of Madras.
   - (*j*) Plankton Studies.
   - (*k*) Endocrines of Fishes.
   - (*l*) Feeding habits of fishes.
   - (*m*) Respiration in Anura.

III. Works published during the year :

1. Three lernaeid copepods parasitic on South Indian fishes. (Jour. of Parasitology, New York, 39 : 1-9-1953).—Dr. C. P. Gnanamuthu.

2. On the cuticle of the scorpion. *Palamneus swammerdami* (Quart. Journl. Micr. Sci. 94 : 11-21, 1953).—Dr. G. Krishnan.

3. On the nephridia of Nereidae in relation to habitat (Proc. Nat. Inst. Sciences, Vol. 18, No. 4 : 241-255).—Dr. G. Krishnan.

4. The development of *Herdmania pallida* (Heller) (Proc. Ind. Acad. Sci. B. 37, 174-187, 1953).—V. O. Sebastian.

5. Seasonal fluctuations in the fat content of the Prawn, *Penaeus indicus* M.Ed. (Ibid 23 : 193-202, 1953).—V. Gopalakrishnan.

6. The development of Glandiceps. (Enteropneusta ; spengelidae) (Journal of Morphology, Phil. 93 : 1-17, 1953).—K. Pampapathi Rao.

7. On a new barnacle Pollicipes polymerus madrasensis sub-sp. nov. in Madras (Ann. Mag. Nat. Hist. 6 : 286-287, 1953).—A. Daniel.

8. Seasonal changes in the Hydrogen ion concentrations and dissolved oxygen content of the surface waters of the Madras Coast. (J. Madras Univ. 23 : 52-60, 1953).—S. Ramamurthy.

9. Hydrobiological studies in the Madras coastal waters. (Ibid, 23 : 148-168, 1953).—S. Ramamurthy.

10. Measurement of Diatom population by pigment extraction method. (Ibid, 164-173, 1953).—S. Ramamurthy.

11. Pelagic copepoda of the Madras coast. (Ibid, 104-114, 1953, B. 23 : 61-75, 1953).—S. Krishnaswamy.

12. Food of the Sardines of Madras Coast. (Ibid 23, No. 1, 1953, pp. 29-39) P. Vijayaraghavan.

13. Pelagic copepoda of the Madras coast. (Ibid, 23 : 104-144, 1953)—S. Krishnaswamy.

14. Pelagic copepoda of the Madras Coast Harpacticoida. (J. Zool. Soc. India, Vol. 4. No. 2. 1953)—S. Krishnaswamy.

15. A new species of copepoda from Madras. (Zool, Anz. 1953). S. Krishnaswamy.

16. Some new cirripedes from the Madras coast. (J. Madras Univ. B. 23, 1953).—A. Daniel.

17. The attachment of Barnacle cyprides to different types of S. Indian timber. (Ibid, 1953).

18. Carbohydrate and fat contents of fishes (Ibid 23, 1953)—T. S. Ramaswamy.

19. Food of Indian Herrings (Ibid 23, 1953)—P. Vijayaraghavan.

Work completed during the year :

Thesis for M.Sc. :

On the Embryology of the isopod Irona, (January 1953).—S. Gopalakrishnan Nayar.

Respiration in Anura (August 1953).—A. George Cherian.

Thesis for Ph.D. :

Studies on Copepoda of Madras. (August 1953). —S. Krishnaswamy.

Studies on fish eggs and larvae of Madras Coast. (August, 1953).—P. Vijayaraghavan.

Studies on the Biology of Madras Penaeids (August, 1953).—V. Gopalakrishnan.

Papers under publication :

1. Choniosphaera indica-Parasitology, Cambridge —Dr. C. P. Gnanamuthu.
2. Two new sand living isopods from sandy beaches of Madras. (Ann. Mag. Nat. Hist., 1953)— Dr. C. P. Gnanamuthu.
3. A new genus of sand dwelling copepods from Madras. (Proc. Ind. Sci. Congress, 1953)— S. Krishnaswamy.
4. A new species of Synascidian from Madras. (J. Wash. Acad. Sci., 1953)—V. O. Sebastian.
5. The Seasonal variations and the succession of fouling communities in the Madras Harbour waters. (Proc. Indian Acad. Sci.)—A. Daniel.
6. The cirripedia of the Madras Coast. (Bull. Madras Govt. Mus.).—A. Daniel.
7. Some new cirripedes from the Madras Coast (Proc. Indian Sci. Congress).—A. Daniel.
8. The attachment of Barnacle cyprids to different types of S. Indian timber. (Ibid).—A. Daniel.
9. Carbohydrate and Fat content of fishes. (Proc. Ind. Sci. Congress).—T. S. Ramaswamy.
10. Food of Indian Herrings. (Proc. Ind. Sci. Congress).—P. Vijayaraghavan.

IV. Research Fellows and Students

Research Fellow	...	1
Government of India Cultural Scholar	...	1
Government of India Senior Scholar	...	1
Government of India Junior Scholar	...	1
Stipendiary Research Students	...	3
Non-Stipendiary Research Students	...	6
M.Sc. (By examination) Students	...	2

V. Inter-Collegiate lectures :

12 lectures on Invertebrate Embryology were delivered to 13 students from Presidency College and 7 from Christian College. Practical demonstrations were also arranged for the students by the departmental staff.

VI. The Director read a paper on Speciation and the new systematics at the Symposium on Organic evolution conducted by the National Institute of Sciences on the 6th, 7th and 8th March 1953, at Delhi.

The Reader attended the Seminar on Oceanography conducted at Andhra University, Waltair, from 6th to 9th April 1953.

12. DEPARTMENT OF PHYSICS

I. Staff

Professor

Sri G. N. Ramachandran, M.A., M.Sc., D.Sc., Ph.D., A.I.I.Sc., F.A.Sc.

Reader

Sri A. Ramakrishnan, M.A., Ph.D.

Research Assistant

Sri K. S. Chandrasekharan, M.Sc.

II. General

The equipment of the laboratory has progressed and about 75 per cent of the apparatus ordered have arrived and have been set up during the year. The laboratory is equipped mainly for X-ray crystallography and for the study of bimolecular structures with X-rays and by other physical methods.

III. Research Students

Experimental Physics :—

Research Fellow	...	...	...	1
Research Students	...	...	...	2

Theoretical Physics :—

Research Students	...	...	...	2

IV. Research Work

(*a*) The Reader and his students are engaged in research in the following subjects :—

(1) Statistical problems on Astrophysics.

(2) Statistical problems in the Cascade Theory.

(3) General stochastic theory.

One student collaborated with the Reader in regard to research work on statistical problems relating to (1) Cascade theory and (2) Astrophysics. Another student is engaged in numerical calculations on the nucleon cascades.

(*b*) A Geiger counter for counting X-rays, together with the associated electronic equipment were constructed in the laboratory and are working satisfactorily. This is being used for the study of fine structure of crystals. (Mr. K. S. Chandrasekharan).

(*c*) X-ray powder and rotation photographs taken with potassium chlorate reveal that some changes in structure occur above the transition point at about 250° C. (Mr. M. A. Lonappan).

(*d*) X-ray studies made with collagen indicate that some of the assumptions made by Pauling and Corey in arriving at the structure of collagen are probably not valid. (Dr. Gopinath Kartha) A more satisfactory structure is being worked out. (Dr. Gopinath Kartha and Dr. G. N. Ramachandran).

(*e*) Theoretical results have been derived for the variation of the integrated reflection and anti-reflection of a perfect crystal with various factors in the case of an integral reflection. (Dr. G. N. Ramachandran).

V. Publications

The following papers were published during the year 1953:—

1. Influence of Mosaicity on the Bragg Reflection of Polarized X-rays by S. Ramaseshan and G. N. Ramachandran, Acta Crystalographica, vol. 6, p. 364, 1953.
2. The Poincare Sphere and Stokes Parameters by G. N. Ramachandran, Journal, Madras University, B. 22, 277, 1953.
3. On a class of Stochastic processes associated with the random division of a line by Dr. A. Ramakrishnan, Proceedings of the Cambridge Philosophical Society, vol. 49, 473, 1953.
4. A stochastic problem relating to counters by Alladi Ramakrishnan and P. M. Mathews, Phil. Mag., 1953.

5. Numerical Work on the Cascade Theory by Alladi Ramakrishnan and P. M. Mathews, Prog. Theo. Phys. (Japan), 1953.

The following papers are in the press or in the course of publication :—

1. On the solution of an integral equation of Chandrasekhar and Munch by Alladi Ramakrishnan and P. M. Mathews, Astrophysical Journal.
2. A Stochastic model of a fluctuating density field by Alladi Ramakrishnan, Astrophysical Journal.
3. On a Class of Stochastic Integro-differential equations by Alladi Ramakrishnan and P. M. Mathews, Proc. Ind. Acad. Science.
4. Studies on the fluctuation problem of the electron-photon cascades by Alladi Ramakrishnan and P. M. Mathews, Prog. Theo. Phy. (Japan).
5. X-ray Anti-reflections in Crystals—Part II : Calculation of integrated reflection and anti-reflection for an internal reflection by G. N. Ramachandran, Proc. Ind. Acad. Sci.
6. Unit cell and Space Group of Morellin by G. Kartha, Current Science.
7. Investigation of the Texture of Crystals by means of Polarised X-rays by S. Ramaseshan and G. N. Ramachandran—Proc. Ind. Acad. Sci.

VI. Lectures :

The Professor delivered the following course of Inter-Collegiate lectures :—

(*a*) Crystallography and Crystal Physics.
(*b*) Tensors and their applications.
(*c*) Group Theory and its application.
(*d*) X-rays and Crystal structure.

The Reader gave the following courses of Inter-Collegiate lectures.

(*a*) Methods of Mathematical Physics.
(*b*) Numerical Analysis.
(*c*) Elements of Probability Theory.
(*d*) Methods of Mathematical Statistics.
(*e*) Statistical Mechanics.
(*f*) Elements of Wave Mechanics.

A few seminars were held on the topics of research conducted in the department.

13. DEPARTMENTS OF GEOLOGY AND GEOPHYSICS

I. Staff

Reader

Sri P. R. Jagapathy Naidu, M.Sc., D.Phil. (Basle)

Research Assistant

S. Ramanathan, B.Sc. (Honours)

II. Topics on which Research is in progress

Reader

Granites and Granites.

Research Assistant

The relationship of ultrabasic Rocks to the Charnockites as studied in Salem and Dodkanya.

Research Fellow

The Charnockites from the type area of Sir Thomas Holland.

Research Students

(*a*) The Granites and Greisses of the Mysore State.

(*b*) The Granite mass of Jalarpet.

III. Works completed during the year

1. "Granites and Granites—Series I" by P. R. Jagapathy Naidu.
2. "Twins, parallel growths and parting in Pyroxenes of Charnockites from the types area of Sir Thomas Holland" by N. Leelananda Rao.

IV. Research Fellows and Students

There are one Research Fellow, one Stipendiary Student and one Non-stipendiary student.

V. Lectures

About 30 lectures were delivered in Industrial Geology to the students of Chemical Engineering. Out of 30 students, one failed in the subject of Geology.

VI. Other General Information

The Reader attended the Lucknow session of the Indian Science Congress. He was elected to the Governing Council of the Geological, Mining and Metallurgical Society of India.

14. DEPARTMENT OF ANTHROPOLOGY

I. Staff

Lecturer

U. R. (Baron) Ehrenfels, Esq., Ph.D. (Vienna.)

II. Research work

(*a*) The Lecturer pursued anthropological field researches during the first half of the year, among the Lyngngam, a matrilineal group of shifting cultivators in the Khasi State Nongstoin, on the Garo Hill border and visited in this connection Nongstoin and Shillong twice, and Gangtok (Sikkim State), once during this period.

(*b*) The Lecturer participated in discussions, and read a paper as consultant, at the *UNESCO Seminar* on the *Status of Women in South Asia*, at New Delhi, December to January 1952-53.

(*c*) The Lecturer read a paper on *Preliminary Results of Comparative Studies in Matrilineal Societies* at the Indian Science Congress Session, held at Lucknow, U.P. in January 1953.

(*d*) The Lecturer pursued the questions, connected with the problem of the Dravidian homeland and origins from the point of view of his own original researches and delivered on this problem two lectures at the invitation of the "Indian Institute of Culture," Bangalore (July 1953).

III. Publications :

(*A.*) *Published from December* 1952 *to November* 1953 :

1. *The Anthropological Background* (of Matrilineal Societies), Paper No. 1. UNESCO Seminar on the Status of Women in South Asia, Dec. 52/Jan. 1953.
2. *Matrilineal Family Background in South India*, published in "Madras University Journal", Vol. XXIII, Nos. 1 and 2.
3. *Is War a General Trait of Human Nature?* published in "Indian Year Book of International Affairs", Madras, vol. 1, No. 1.
4. *Khasi Kinship Terms in four Dialects*, a research paper in "Anthropos", Posieux, Switzerland, Vol. 48, 1953.
5. *Social Ethics in the Anthropological Age*, in "Women's Welfare Journal" Vol. IX, No. 1, 1953, Government of Madras.

(*B.*) *Written during* 1953 *but not published*

1. *The Lyngngam of Assam* written at the request of the Director, Anthropological Survey, Government of India.

2. *Differences in Marriage Regulations among Lyngngam, Khasi & Garo.*

IV. Research Students :

(*a*) One student submitted a thesis on " Mother-Goddess—a Regional Study (Madras and Malabar) " and was awarded the M.Litt. Degree.

(*b*) Mr. Richard Bachenheimer, Fulbright Scholar from the University of California, joined the department as a casual student and is engaged in a village study at Mysore.

V. Certificate and Diploma Courses in Anthropology :

Four Diploma and two Certificate students appeared for the examination in April and three and one passed respectively.

Four students joined the second year of the Diploma course and four for the Certificate course. Seven more students joined the first year Diploma course.

The Lecturer delivered lectures to both the courses. He was assisted by Dr. A. Ananthanarayana Ayyar and Dr. Aiyappan with their lectures on Comparative Anatomy of Man and Anthropoid Apes and Pre-historic Archaeology during the year.

15. DEPARTMENT OF INTERNATIONAL AND CONSTITUTIONAL LAW

I. Staff

Professor

Charles Henry Alexandrowicz, Esq., LL.M., LL.D., *Barrister-at-Law.*

II. Topics on which research is in progress

The Indian Constitution.

International Law in Asia.

III. Works published during the year and works completed

Indian Year Book of International Affairs, Vol. I.

Chinese Suzerainty over Tibet (Madras University Journal).

Delegation of Legislative power (American Journal of Comparative Law).

Is India a Federation ?

Treaties with Sikkim and Bhutan.

IV. Research Students

Four Research Students : Engaged in research work in International and Constitutional Law. A number of their research papers have been published or are going to be published this year :—

1. A. K. Srinivasamurthi : Separation of powers in East and West ; The Constitution of Indonesia.
2. M. K. Nawaz : The Constitution of Ceylon ; The Kashmir problem ; Criminal Jurisdiction in India and International Law.
3. P. Choudhuri : Tibet ; Trusteeship problems.
4. C. Kesava Rao : The Draft Constitution of Pakistan ; Civil Jurisdiction in India and International Law.

V. M. L. Classes

Every week five classes are held for M. L. students.

VI. Other general information

1. The Professor has carried out research work in the Library and Archives of the Ministry of External Affairs in Delhi (April-May 1953).
2. The Professor organized an Indian Committee of Comparative Law (affiliated to UNESCO) of which he is Secretary-General. Meetings of the Committee were held in Madras. The Committee has initiated research work in Comparative Law.
3. The Professor is Editor of the Indian Year Book of International Affairs and conducts the work of the Study Group of International Affairs.

16. DEPARTMENT OF TECHNOLOGY

(*Alagappa Chettiar College of Technology, Guindy*)

Chemical Engineering

I. Staff

Director and Professor of Chemical Engineering

Sri M. A. Govinda Rau, M.A., Ph.D. (Lond.), F.A.Sc., M.I. Chem. E. (Eng.)

Reader in Engineering

Sri V. S. Jayaraman, B.E. (Mech.)

Reader in Chemical Engineering

Sri G. S. Laddha, B.Sc., B.Sc. (Tech.), M.S., Ch.E. (Purdue), Ph.D. (Purdue).

Reader in Chemical Technology

Sri A. P. Madhavan Nair, M.A.

Senior Lecturer in General Engineering

Sri P. Murugamanickam, B.E.

Senior Lecturer in Industrial Chemistry

Sri P. B. Janardhan, M.A., Ph.D., A.R.I.C.

Senior Lecturer in Chemical Engineering

Sri B. Chennakesavan, B.Sc., B.Sc. (Hons.)

Demonstrators

Sri D. P. Kannayya Pillai, B.Sc., B.Sc. (Tech.)

Sri S. Venkataraman, B.Sc., B.Sc. (Tech.)

Sri R. S. Raman, B.Sc., B.Sc. (Tech.)

Sri S. Subrahmanyam, B.Sc., B.Sc. (Tech.)

Mr. K. Chandrasekharan, Demonstrator was selected for appointment as Chemical Engineer at the Government Oil Technological Research Institute, Anantapur and left the College from July 1st, 1953.

Mr. C. N. Chandrasekharan, Demonstrator was selected by the Union Public Service Commission for appointment as Assistant Works Manager (U.T.) in the Ordnance Service, and left the College in November 1952. Mr. S. Subrahmanyam was appointed Demonstrator in this vacancy.

Mr. V. S. Jayaraman who was deputed to act as Principal, Alagappa Chettiar College of Engineering and Technology, Karaikudi, rejoined the College on 1st April 1953.

Dr. G. S. Laddha was deputed to attend the meeting of the Institute of Chemical Engineers at Kanpur in January 1953.

II. Teaching and Classwork

Results of the B.Sc. (Tech.) Degree Parts I and II examinations held in April-May 1953, are as follows :

	No. appeared.		No. Passed.	
	Part I	Part II	Part I	Part II
Chemical Engineering ...	28	29	21	22
Textile Technology.	12	7	7	6
Leather Technology.	...	4	...	4

The new admissions for the year made in July 1953, after the usual personal interviews are as follows :

Chemical Engineering : 28
Textile Technology: 12
Leather Technology: 2

III. Industrial tour—Technical Association meetings, Symposia—Factory training postings.

The usual educational tour round Chemical industries in South India was split into two schedules, one in Dasara holidays to Mysore State and the second in Christmas holidays to Malabar and other places. The tours were conducted by Sri S. Venkataraman and Sri R. S. Raman respectively.

A number of Technical reports on Design problems were prepared by students and presented for discussion at seminars. A symposium on " Heat Transfer " was also organised, when experts from the Industry took part and also an exhibition of interesting types of heat transfer equipment was organised. Arrangements were made for the practical training of our students for 3 months in the following factories :—

1. M/s. Mysore Iron & Steel Works, Bhadravathi
2. „ Travancore Rayons, Ltd.
3. „ Fertilizers and Chemicals, Alwaye.
4. „ Mettur Chemicals, Mettur Dam.
5. „ Punalur Paper Mills, Punalur.
6. „ Mysore Sugar Mills, Mandya.
7. „ India Cements, Ltd.
8. „ Mysore Chemicals & Fertilisers, Belagula.
9. „ Indian Aluminium Company.
10. „ Lever Brothers, Bombay.
11. „ Dalmia Cement Company.
12. „ Andhra Paper Mills, Rajahmundry.

13. M/s. K. C. P. Ltd., Vuyuru.
14. „ Travancore-Cochin Chemicals, Elur.
15. „ A. C. C. Vijayawada.
16. „ Tata Oil Mills, Tatapuram.
17. „ Tata Chemicals, Mithapur.

IV. Scholarships and stipends

Government of India practical training scheme has been materially modified this year and no awards of stipends have been made to any student.

Sri T. A. Poonnen, who completed his third year period of Government of India Senior Research scholarship is continuing his work, with a University of Madras Fellowship. A Government of India Senior scholarship has been awarded during the year to Sri R. Srinivasan who proposes to take up Research in the field of Applied Electro-Chemistry.

V. Research activities

The studies on "Pressure drop during the flow of slurries in pipes" were brought to a certain stage and a thesis on the work that was carried out was submitted for the degree of M.Sc., which was duly awarded to Sri T. A. Poonnen. The investigation on "The sedimentation of very fine particles in centrifugal fields" is not yet completed and Sri R. S. Raman is continuing his work on the same.

The studies on "Choice of selective solvents for use in the refining of Vegetable oils" have yielded interesting results, which have been sent for publication. Sri G. Venkataraman was awarded M.Sc., for this piece of work.

A study of the nature of filtration and structure of filter cakes is being continued by a Government of India Research Scholar.

An investigation into the possibilities for the Chemical utilisation of lignite is under progress.

Another subject under active study is the problem of heat transfer to liquids flowing through packed tubes.

A study of the optimum conditions for obtaining high purity Thiosulphate crystals on an industrial scale is being carried on by Sri T. A. Poonnen.

An investigation on vapour-liquid Equilibria over Ternary systems has been completed and a thesis has been submitted for the degree of M.Sc., by Sri S. Venkataraman.

VI. Publications

1. " Training within industry." By Dr. M. A. Govinda Rau, A. P. T. I. Journal, Volume 5, page 52.
2. " Electro filtration." By Mr. B. Chennakesavan, Altech No. 3.
3. " Vapour compression evaporators." By Mr. S. Venkataraman, Altech No. 3.
4. " Submerged combustion." By Mr. M. G. Subba Rau, Altech No. 3.
5. " The Status & Scope of work in Technical Colleges." By Dr. M. A. Govinda Rau, Altech No. 3.
6. " Engineering Notes." By Dr. G. S. Laddha, Altech No. 3.
7. " Preparation of long chain diphatic amins." By Dr. P. B. Janardhan, Journal of Scientific Industrial Research, No. 5, page 43, 1953.
8. " Estimation of copper using rubionic acid." By Dr. P. B. Janardhan, Journal of Scientific Industrial Research.

9. "Architecture of Technology in Mellon Institute." By Dr. M. A. Govinda Rau, "Current Science" Nov. 53.

10. "Cotton Seed Oil Industry" By Dr. G.S. Laddha (under publication.)

Textile Technology

I. Staff

Professor

Sri B. C. Mohanty, B.Sc., M.Sc. (Leeds)

Reader in Weaving

Sri S. Krishnamurthy, B.Sc., B.Sc. (Tech.)

Senior Lecturer in Spinning

Sri R. A. Quraishi, B.Sc., B.Sc. (Tech.)

Junior Lecturer in Textile Chemistry

Sri O. K. Balakrishnan, B.Sc.

Artist Designer

Sri R. Madhavan

Instructor

Sri B. S. Venkatasubba Rao, B.Sc. (Textiles)

Instructor in Weaving

Sri T. Muniratnam

Instructor in Spinning

Sri B. S. Krishnamurthy

The Reader in Textile Technology was promoted to the grade of Professor with effect from 1st July, 1953.

II. Topics on which research is in progress

1. "Warp Tension and its Control."
2. "Dependence of Air Permeability and Wear on the Structure of Cloth."

III. General

Building :—The Textile Chemistry Laboratory has since been equipped and the Textile Chemistry Practical Classes are being conducted in the new block since July 1953.

Machinery: Machineries for the Weaving and Testing sections have been received and erected except one or two machines which are expected to be received soon. The Practical Classes in Weaving and Textile Testing were conducted in the B. & C. Mills and in the Government Textile Institute, Madras up to March 1953, and since then the Practical Classes are being conducted in the Department.

All the Spinning Machineries except the Blow Room Machineries were received and erected. The Practical Classes for the Second Year Students were being conducted in the B. & C. Mills till July, 1953, and since then the Practical Classes are being conducted in the Department while the Practical Classes in Spinning for the First Year Students are still being conducted in the B. & C. Mills in the absence of the Blow Room Machineries.

IV. Seminars

Seminars were conducted on the following subjects :

1. Plain Loom Setting.
2. Different types of finishes used in the Textile Trade.

Discussions and Lectures were arranged on the following subjects and the Lectures were delivered by:-

1. Mr. Heywood, Director of Textile Machinery Manufacturers' Research Institute, England on "Research in Textile Industry."

2. Dr. Miss Vaswani, Officer in Charge of the Department of Statistics ATIRA, Ahmedabad on " Statistical Quality Control in Textile Mills."

3. Mr. Morris, Weaving Master, B. & C. Mills, on " Loom Adjustments."

Sri S. Krishnamurthi, B.Sc., B.Sc. (Tech.), Reader in Weaving, attended the All India Textile Conference held at Coimbatore as a delegate from the University.

17. DEPARTMENT OF SANSKRIT

I. Staff

Reader

Sri V. Raghavan, M.A., Ph.D.

Senior Lecturer

Sri K. Kunjunni Raja, M.A., Ph.D.

Junior Lecturer

Sri S. Subrahmanya Sastri, M.A.

II. Reader

From January to April : The Reader delivered weekly lectures to the Sanskrit Honours students and scrutinized the works of his juniors and research students. He continued his main work on the Catalogus Catalogorum with the help of the two assistants.

The Reader went to England in May in connection with the Catalogus Catalogorum work.

III. Senior Lecturer

The Senior Lecturer was given study leave and is now in England.

IV. Junior Lecturer

(*a*) *Topics on which research is in progress* :

1. Bhattadipika Volume II (Adyayas 3 to 6)—Manuscripts from Adyar, Poona, Trivandrum and Madras were collated and a copy for the press prepared.
2. Brhati and Rjuvimala—corrected upto the first Pada of Adhyaya II.
3. Samkarshakanda with Devaswamin's Bhashya—Manuscripts for a portion of the work examined.

(*b*) *Publication*

1. Bhatta Dipika Vol. II, 10 forms printed.
2. Brhmasutrabhasya of Sri Sankara with two new commentaries-Subodhini and Advaita Bhusanam—12 forms have been printed in the Brhmavidya Journal (Kumbakonam).

V. Conference

The Junior Lecturer attended the 17th Session of the All India Oriental Conference at Ahmedabad as a delegate of the University and read a paper on "Anandanubhavacharya."

VI. Research Assistants

The two assistants have compiled 27,250 slips from 19 manuscripts, catalogues and lists and have checked 17,150 slips and arranged them alphabetically. 18 Catalogues were indexed.

VII. Research Students

Two students were working in the Department during the year under report. The Senior Student completed her work and submitted a report embodying the result of her research on Alankarasarvasva with Vidyacakravartin's commentary. The Junior Student has collected materials for his thesis on Bhartrihari's unpublished commentary on the Mahabhashya.

18. DEPARTMENT OF TAMIL

I. Staff

The Rev. Lazarus Professor of Tamil

Sri R. P. Sethu Pillai, B.A., B.L.

Senior Lecturer in Tamil

Sri M. A. Dorairangaswamy, M.A., M.O.L.

Junior Lecturer in Tamil

Sri E. R. Purushothama Naidu, Vidvan.

II. Professor

(*a*) *Topics on which Research is in Progress*

1. A treatise on " Sollin Selvam " (The wealth of words in Tamil Literature).
2. A study of the Diary of Anandaranga Pillai.

(*b*) *Works which are being printed*

1. An English commentary on Tirukkural by F. W. Ellis with notes and explanations.
2. " A Comparative Vocabulary of Dravidian Cognates " prepared by the Heads of the Dravidian Language Departments.
3. The Concise Tamil Lexicon.
4. An article of the commentary on Tirukkural by F. W. Ellis contributed to the Silver Jubilee Volume of the Tiruvalluvar Kazhaham, Tenkasi.

(*c*) *General Information*

The Professor served on the following Committees:

Expert Committee of the Government Oriental Manuscripts Library.

Bharathi Works Publication Committee constituted by the Government of Madras. Three volumes of the revised poetical work of Bharathi have been published.

Editorial Board of Tamil Encyclopaedia and contributed an article on " The Political Ideas in Tamil Literature " to the first volume.

Committee appointed by the Director of Public Instruction, Madras, for preparing a syllabus in Ancient Culture under the scheme of re-organisation of Oriental Schools.

Conferences :

The Professor attended the First Languages Development Conference (Bharatiya Bhasha Vikasa Parishad) held at Poona, and submitted papers on " the vocabulary of technical terms " and " the methods of increasing knowledge of the various Indian languages in the different regions of India." He also attended the Seventeenth session of the All-India Oriental Conference held at Ahmedabad, and read a paper on " The Linguistic value of Ananda-ranga Pillai's Diary " in the Dravidian Section. He was elected President of the Dravidian Culture Section of the next Conference to be held at Annamalainagar.

III. Senior Lecturer

(*a*) *Topics on which Research is in Progress* :

1. " Religion and Philosophy of Tevaram with special reference to Saint Sundarar."
2. The Ettuttokai (Eight Classical Anthologies).

(*b*) *Works completed during the year* :

1. A research article on " Dakshinamurti with special reference to Saint Sundarar " has been contributed to the Annals of Oriental Research.
2. Essays on " The Life of Sundarar," " The Age of Sundarar," " Tiruttontattokai " and " A Critical Appreciation of the Hymns of Sundarar " have been written.

3. An Essay on " Valluvar Valankum Vidu " has been contributed to the Silver Jubilee Volume of the Tenkasi Tiruvalluvar Kazhakam.

4. Several articles contributed to Tamil Encyclopaedia have been scrutinised as one of the referees.

(*c*) *Lecture Classes*

Weekly classes to the B.A. (Hons.) and M.A. students of the Presidency and Pachaiyappa's Colleges on Inscriptions are being conducted.

IV. Junior Lecturer

(*a*) *Topics on which Research is in Progress*

" Tiruvaymozhi — Ittin Tamilakkam."

(*b*) *Works completed during the Year*

1. The printing of the third volume, entitled " Tiruvaymozhi — Ittin Tamilakkam " with an appendix.
2. The notes for the fourth ten of the fourth volume.

V. Number of Research students and Fellows

One Research Fellow was working in the Department till 21—11—1953. Five Research Students are working in the Department at present. They are working on the following subjects :

1. Pattu-pattu (The ten Tamil Idylls).
2. Christianity and Tamil Literature.
3. A Comparative Study of Kamba Ramayanam (Tamil) and Tulsi Ramayanam (Hindi).
4. Historic Places of the Ancient Tamilakam.
5. Contribution of European Scholars to Tamil Literature.

19. DEPARTMENT OF TELUGU

I. Staff

Senior Lecturer

Sri N. Venkata Rao, M.A.

Junior Lecturer

Sri S. Ramakrishna Sastry, M.A., B.O.L.

II. Topics on which Research is in Progress

Senior Lecturer

(1) Engaged in the collection of materials for "History of Linguistic Studies in Telugu."

(2) A Comparative Vocabulary of the Dravidian Cognates—Under print.

(3) Investigation into the grammatical and prosodical peculiarities of Lakshanakaras, with special reference to Dravidian Philology.

(4) Revision of the second part of "The Lives of Telugu Poets from 1250-1500 A.D."

III. Works completed during the Year

Senior Lecturer

(1) Lives of Telugu Poets from earliest times to 1250 A.D.—Published.

(2) Southern School in Telugu Literature—Under print.

(3) Telugu Literature under Mysore rulers—Published in the Annals of the Oriental Research Institute.

Junior Lecturer

The Junior Lecturer completed the History of the Telugu Literature from the beginning to the end of the Age of Kavitraya Period—1350 A.D.

IV. Research Student:

The one non-stipendiary research student has submitted his thesis for the Ph.D. entitled "Literature and Value in Life with Special Reference to Kalapurnodayamu."

V. Lectures

Senior Lecturer

Lecturing work for two hours a week for the Telugu B. A. (Hons.) and Post-graduate Students of the Presidency College on South Indian History and Inscriptions.

VI. General

The Senior Lecturer continued to serve on the Expert Committee of the Selection of Telugu Manuscripts appointed by the Government of Madras. He attended the 17th session of the All-India Oriental Conference held at Ahmedabad and read a paper, "Telugu Influence on Tamil Land."

20. DEPARTMENT OF KANNADA

I. Staff

Reader

Sri M. Mariappa Bhat, M.A., L.T.

Junior Lecturer

Sri M. Govinda Rao, M.A., B.O.L.

II. Topics on which Research is in progress

Reader

(1) Collection of materials for the History of Kannada Literature (Already collected materials for the Pre-Kaviraja Marga Period).

(2) Study of Tulu words — Listed about 200 words in Tulu (Desi)—(Research work on Dialects).

(3) Revised the latter part of Parswanatha Purana, and sent the matter to the Press. The work is under print.

(4) A Comparative Vocabulary of the Dravidian Cognates (Joint work of all the Dravidian Departments) is under print.

Junior Lecturer :

(1) Work on Haridasa Literature in Kannada (The work is nearing completion).

(2) Editing of Parswanathapurana (joint work).

(3) Collecting materials for the work on " Nature in Kannada Poetry."

III. Works published during the year and works completed

(1) Published—Vardhamanapurana (joint work of the Reader and Junior Lecturer)—A famous Champu work of the 12th century.

(2) Kumaramana Kathe (a historical poetical work) —A hitherto unpublished work (revised).

(3) Tulu Calendar—A paper published in the Annals of Oriental Research Vol. X, Part I (Reader).

(4) Completed the Krishnakatavathara from Chikupadhyaya's Vishnupurana and published a comparative study of the same with Rudra Bhatta's Jagannathavijaya in the Annals of Oriental Research Vol. X, Part I (Junior Lecturer).

(5) Completed a paper on nominal suffixes in Tuluva (to be published in the Annals of Oriental Research Vol. X, Part II) —Reader.

(6) " Yakshagana in Karnataka " by the Junior Lecturer (to be published in the Annals of Oriental Research Vol. X, Part II).

IV. Lectures

The Reader and Junior Lecturer (each) lectured 4 hours a week to the Kannada Honours Students of the

Presidency College on History of Language and Philology, History of Literature and Literary Criticism and Inscriptions.

V. General

The Reader continued to be the Editor of the Annals of Oriental Research and brought out Vol. X, Part I. He was a member of the Provincial Library Committee, and of the Expert Committee of the Government Oriental Manuscripts Library (Kannada Series). He also attended the 17th Session of the All-India Oriental Conference held at Ahmedabad during November 1953, as a delegate of the University, and read a paper on "Proper Nouns in Tuluva."

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21. DEPARTMENT OF MALAYALAM

I. Staff

Senior Lecturer

Sri S. Krishnan Nayar, M.A., Ph.D.

Junior Lecturer

Sri K. N. Ezhuthachan, M.A.
(appointed on 8th July, 1953.)

II. Topics on which Research is in Progress

Senior Lecturer

1. The Folk-Dance of Kerala.
2. The Early Beginnings of Malayalam.
3. Ballads of North Malabar, Vol. II.

Junior Lecturer

1. Linguistic and Philological Studies in Mediaeval Malayalam.
2. Snake-worship in Kerala.

III. (a) Works published during the year (Senior Lecturer)

1. Ayudhabhyasam.
2. Keralotpathi.
3. Re-printing of Kavya Jivitavritti, Vols. I & II.
4. Selections from Classical Literature for Intermediate and B.A. Degree Examinations.
5. Malayalam Inscriptions.

(*b*) Works Completed (Senior Lecturer)

1. The Folk-drama of Kerala.
2. Karana Padhati (Editing of rare manuscripts in Malayalam under the auspices of the Government Oriental Manuscripts Library, Madras).

IV. Number of Research Students, etc.

Three Research Students have been working under the Senior Lecturer, their topics for research being—

1. An Etymological Study of the Loan Words in Malayalam ;
2. A Study of " Nalacaritam Kathakali " ; and
3. A Comparative Study of Campu Literature in South Indian Languages.

Of the three Students, the Travancore Research Scholar left the Department in the middle of March, 1953.

Lectures were delivered to the Malayalam Honours Students of the Presidency College by both the Senior Lecturer and the Junior Lecturer.

V. General

The Senior Lecturer attended the seventeenth session of the All-India Oriental Conference held at Ahmedabad on 31st October, 1st and 2nd November, 1953 and read a paper on " The Art of Kathakali." He also served as member of the Expert Committee of the Government Oriental Manuscripts Library (Malayalam Series).

22. DEPARTMENT OF ARABIC, PERSIAN AND URDU

I. Staff

Professor

Sri Muhammad Husain Nainar, M.A., Ph.D., (On leave from 1st July, 1953).

Junior Lecturer in Persian

Sri A. S. Usha, B.A. (Alig.)

Junior Lecturer in Urdu

Sri Muhamed Yousuf Kokan, M.A.

II. Topics on which Research is in Progress

(1) *Junior Lecturer in Persian* :

(*a*) Preparing the press copy of Tarikh-i-Khan-i-Jahani (a history of Lodhi and Sur kings of Delhi) by Nimatullah who flourished during the reign of Jahangir.

(*b*) Preparing the glossary of Waqai-i-Muhammad Shah and the index of Badshahnama—both dealing with the events of Mughal Kings of Post-Alamgir periods.

(2) *Junior Lecturer in Urdu*

Preparing the press copy of Aslul Usul (a Persian work on Sufism pp. 618) by Abdul Qadir Fakhri of Mylapore, Madras (1730 - 1789) with critical notes.

III. Works published during the year and works completed

(1) *Junior Lecturer in Persian*

Selections from Jami-ul-Hikayat by Awfi completed and is ready for publication.

(2) *Junior Lecturer in Urdu*

The printing of the text of Kulliyyat-i-Abjadi, Part IV, has been completed. The introduction is under print.

23. DEPARTMENT OF HINDI

I. Staff

Senior Lecturer

Sri S. Shankar Raju Naidu, M. A., 'Sahitya Ratna', 'Honours in Hindi.'

II. Topics on which research was carried on during the year

1. Kambar and Tulasi (or Ram-Sita Poorva Raga in Ramayana).

2. Tirukkural (Tiruvalluvar) Aur Hindi Ke Sooktikar—A Comparative Study with a Complete Translation.

3. Treatment of Love by Tiruvalluvar and Biharilal.

4. A Comparative Study of Andal and Meerabai (Poetesses of Krishnabhakti Cult in Tamil and Hindi).

5. Tamil Literature and its modern trends—For the Diamond Jubilee Commemoration Volume of Nagari Pracharini Sabha, Banaras.

6. Comparative Study of Ramayana by Tulasidas and Kambar—Continued—Under the supervision of the Professor of Tamil.

II. Works published and completed during the year

1. "Tirukkural—A Comparative Study" with a critical commentary and translation of 'Payiram' in equivalent verses—Published in the Annals of Oriental Research.

2. Kambar and Tulasi (or Ram-Sita Poorva Raga in Ramayana)—In the press.

3. Treatment of Love by Tiruvalluvar and Biharilal—Read at the seventeenth All-India Oriental Conference, Ahmedabad.

4. Tamil Literature and its modern trends—To be published in the Diamond Jubilee Commemoration Volume of Nagari Pracharini Sabha, Banaras.

IV. Other General Information

The Senior Lecturer attended the 'Conference of Professors of Hindi of Indian Universities convened by the Government of India and held at New Delhi on the 20th and 21st of January 1953, and served on one of the Sub-Committees. He submitted a paper on 'Treatment of Love by Tiruvalluvar and Biharilal' to the seventeenth All-India Oriental Conference at Ahmedabad, to which he was deputed by the University, and participated in the discussions there.

24. DEPARTMENT OF INDIAN MUSIC

I. Staff

Reader

Sri P. Sambamoorthy, B.A., B.L.

Assistants

Sri Kalidoss Nilakanta Iyer (*Vocal*)

Sri M. Udayavarma Raja (*Veena*)

Sri Madura Subrahmanya Iyer (*Violin*)

II. Research work during the year

1. Music of the *Pallaki Seva Prabandham*—A Telugu opera of the 17th century.
2. Kudimiyamalai Music Inscription (7th century A. D.)
3. Minor Composers : Pallavi Seshayyar.
4. Dhanur Vina, the precursor of the Violin.

III. Publications

The second and enlarged edition of the *Descriptive Catalogue of Musical Instruments* edited for the Madras Government Museum two years back was published during the end of the year.

The *Bharata Siddhantam*, a work on music and dance edited for the Madras Government Oriental Manuscripts Library was published during the year.

Preparing the Press copy of Vol. II of the *Dictionary of South Indian Music and Musicians.*

In the Press

Great Composers : Book II.

IV. Articles and papers contributed

1. Prahlada Bhakti Vijayam ; the Telugu opera of Tyagaraja.
2. Tyagaraja's Art.
3. Pallavi Seshayyar.
4. Dhanur Vina and the Violin.
5. Musical Mnemonics.

V. Conference

The Reader attended the XVII session of the All-India Oriental Conference held in Ahmedabad in October-November 1953 as a Delegate of the University and read a paper on "Musical Mnemonics" in the Fine Arts Section of the Conference. He also addressed the full Conference on the 'Kudimiyamalai Music Inscription'—a new interpretation and demonstrated the music of the inscription on the Veena.

Presided over the IV Tevaram Research Conference held in Madras in December.

VI. Supervision and Teaching work

The Reader guided the work of the Research students working in the Department and examined the periodical reports submitted by them.

The Reader and the Assistants conducted the Diploma classes. Of the 13 candidates who appeared for the Music Diploma Examination in April 1953, 11 came out successful.

There are 16 students in the Diploma classes—10 in the first year class and 5 in the second year class—and one student who has passed the Diploma Examination has joined to study an additional practical subject—Veena. Seven in the 1st year class and 5 in the 2nd year class have chosen Vocal as the Practical subject. One student in the first year class has chosen Violin. Two students of the first year class and the Post-Diploma student have chosen Veena.

VII. Research Students

A former Research student has submitted her Final Report on "Poetic metres and their influence on the growth of the tala system." The report will be amplified and submitted for the M.Litt. Degree.

Seven students are doing research in the following subjects :—

1. Light thrown on the history of Indian Music by Archaeological and Epigraphical Records.
2. Alankaras in Musical compositions.
3. History of Ragas and musical forms of South Indian Music from 1600 A.D.
4. Ritualistic music of South Indian temples.
5. Musical aspect of the Yakshaganas in Telugu.
6. Telugu Padakaras.
7. Gamakas (graces) and their growth in Karnatic music and Hindustani music.

One American Fulbright scholar is also studying in the Department.

25. DEPARTMENT OF COMMERCE (Part-time)

I. Staff

Income-tax Law and Practice

Professor

Sri P. D. Swaminatha Mudaliar, B.A.

Lecturer in Law

Sri C. S. Rama Rao Sahib, B.A., B.L.

Lecturer in Auditing

Sri B. Bhakthavatsalu Naidu, B.A., G.D.A., F.C.A.

History and Principles of Co-operation and Co-operative Law

Sri S. Rajagopalan, B.A., Deputy Registrar of Co-operative Societies.

Sri S. Nityanandam, B.A. (Hons.), Deputy Registrar of Co-operative Societies—till the end of March 1953.

Sri M. G. Padmanabha Mudaliar, M. A. Deputy Registrar of Co-operative Societies, from April 1953.

II. This is the second year of existence of the Department of Commerce as a separate entity and it continues to be in charge of the Professor of Income-tax Law and Practice. At present the activities of this department are confined to the teaching of:

(i) Income-tax Law and Practice;

(ii) History and Principles of Co-operation and Co-operative Laws.

Only the students of Loyola and Pachaiyappa's Colleges are now attending the classes.

Rural Economics: which is a part of Optional subject in B.Com. (Hons.) course—History and Principles of Co-operation and Co-operative Laws, is being taught separately in the respective Colleges.

III. From the beginning of June 1953, students of both IV and V B.Com. (Hons.) taking Income-tax Law and Practice as their optional subjects in the B.Com. (Hons.) course are having instructions and to suit the college time-table of these students and the advisability of having a common class for the students of both the classes for lectures in Law by the Lecturer in Law, separate classes are being held on Saturdays between 3 and 5 P.M. in addition to the usual classes held as before thrice weekly between 3 and 5 p.m. on Mondays, Wednesdays and Fridays for both the classes. In order to enable the students of the V B. Com. (Hons.) to receive their instruction in Income-tex Law and Practice well before the close of the College year, it has been found necessary to hold special classes for them during the Christmas Holidays.

Strength of Classes:

	IV B. Com. (Hons.)		V B.Com. (Hons.)	
	Income-tax Law	Co-operation	Income-tax Law	Co-operation
Loyola College	6	13	6	12
Pachaiyappa's College	6	12	6	12
Total	12	25	12	24

There are also three Post-graduate students in V B.Com.(Hons.) course, 2 from Pachaiyappa's College and 1 from Loyola College. In IV B.Com. (Hons.) there is one Post-gruduate student from Loyola College. These figures are included in the above statement.

IV. On Saturdays students having Co-operation as Optional subject were taken to Co-operative institutions by the Lecturers and given practical instruction. V B. Com. (Hons.) students visited 22 institutions and IV B.Com. (Hons.) students 10 institutions. In addition, V B.Com. (Hons.) students were given practical training for four weeks in March and April in the Office of of the Deputy Registrar of Co-operative Societies, in office routine and working of the Co-operative Department. Two weeks in April were utilised by the Lecturer to take such of the students who spent their vacation in Madras to Co-operative institutions in Chingleput District to study their working. For students who spent their vacation in the districts similar training was arranged through the District Deputy Registrars of Co-operative Societies. During the mid-term holidays in September, the Lecturer took the students to Tiruchirappalli District where two weeks were spent in studying the working of the different types of Co-operative Socieities. For three weeks during the Christmas holidays facilities were provided to the students through the help of the Deputy Registrar of Co-operative Societies of districts where they spent their vacation to conduct the audit of an unlimited liability Co-operative Credit Society and a month's accounts of a Co-operative Urban Bank and a Co-operative store.

APPENDIX E.

Madras University Union.

The number of members in the University Union for the year was 37. Some come for games, others to train for Athletic items. The Grounds have been used by the University Cricket Team every Sunday in League Matches. The Grounds have also been used on 40 occasions for Trials, Practices of University Teams and Semi-Finals and Finals of Inter-Collegiate and Inter-Divisional Tournaments and for various Inter-University Tournaments. The Tournaments and Sports Committee also held their meetings at the Union Office.

Inter-University Tournaments.

The University entered for the following Inter-University Tournaments:—Football, Basketball, Volley-ball, Cricket, Athletics, Boxing, Tennis and Hockey.

The Inter-University Tournaments were held as follows:—Football at Annamalainagar, Basketball and Volleyball at Trivandrum, Cricket at Madras, Athletics and Boxing at Ceylon, Tennis at Hyderabad, and Hockey at Mysore.

Madras won no Tournament. We were runners-up in Tennis, A. J. Udayakumar (Presidency College) and Khaleeli (Loyola College) each winning their Singles, and Udayakumar and Narasimhan (Presidency College) winning the Doubles. R. Krishnan of Loyola College was away in Australia at the time, playing for the Davis Cup. On his return to India he won the National Championship. Although we were winners for the South Zone, we had to give a walk-over to Delhi in the Finals as we could not wait ten days for the convenience of the North Zone Organisers. A. Khaleeli and A. J. Udayakumar were chosen to represent Madras State in the Junior National Championship, but were unable to accept the appointment as it clashed with the Inter-University Tournament.

One of our Cricketers, A. G. Kripal Singh (Loyola College) was selected to play for India in the 'Test' match against the S. J. O. C. Team. He also represented Madras State and the Combined Universities in their respective matches against the same team.

In the Boxing Tournament we were runners-up with 9 points though Vasanthkumar of Engineering College (Light Weight) and D. Shanmugam of Pachaiyappa's College (Bantom Weight) won their Finals. In Athletics we came Fourth but two of our men were outstanding. C. Sankaran of Pachaiyappa's College did 23' $\frac{3}{4}$" in Long Jump (a new record) and S. Ramachandran of Jamal Mohamed College, Tiruchirapalli won the Pole Vault item.

Inter-Divisional Tournaments :—The Inter-Divisional Tournaments were conducted as usual in four zones : Madras, Madura, Coimbatore and Trichur. The conducting centres were as follows—Cricket and Basketball at Madras, Volleyball at Trichur, Tennis at Karaikudi, Football at Coimbatore, Hockey at Tiruchirapalli. Loyola College won the Inter-Division Basketball and Volleyball. Tennis Singles and Doubles were won by the Government College of Technology, Coimbatore. The other Divisional Finals are yet to be finished. Two beautiful Silver Cups have been presented by Dr. Alagappa Chettiar for the winners of Cricket and Football respectively in the Madurai Division of the Inter-Collegiate Tournaments.

The Inter-Divisional Sports were held on the University Union Playing Fields with Dr. J. B. Nash, Chairman of the Department of Physical Education, New York University, as President. The Trophy was won by Madura Division with 86 points; Madras came second with 75 points.

Women's Sports & Games :—There is a slight improvement in the number of contestants from Women's Colleges. The Tournaments were conducted in three Zones: Madras, South and West. The Athletics Tournament was held on the University Union Grounds with Mrs. O. C. Srinivasan, Director of Public Instruction, presiding. The Championship was won by Madras with 42 points; the West Zone were runners-up with 38 points. The Semi-Finals and Finals of the Inter-Divisional Games were conducted by Ethiraj College on 22nd and 23rd January 1954. Results: Badminton—Queen Mary's College; Tennis—Queen Mary's College; Netball—Women's Christian College; Tennikoit—Government Victoria College, Palghat.

APPENDIX F

National Cadet Corps

1. The report covers the period of the calendar year 1953. This is the 6th successful year of the N.C.C. which was inaugurated on 15th July 1948.

2. In January 1953, Wing Commander C. SATYA-NARAYANA, the present Circle Commander, took charge from Lt. Col. K. V. S. NAYAR, who was transferred to Bangalore as Commander of the 10th Circle N.C.C., which was newly formed having its jurisdiction in the States of Mysore, Travancore, Cochin and Coorg.

3. January 1953 was the month when all the Annual Camps for the training year 1952-53, which had commenced in December 1952, were concluded and the Units returned to their Headquarters to commence their training for the rest of the training year till the end of March.

4. On the 13th January 1953, a Contingent of Senior Div. Air Wing and Naval Cadets selected from 3rd Madras Air Sqn. N.C.C., and from the Junior Div. Naval Units of Madras and Visakhapatnam, were sent to Delhi to take part in the Republic Day Parade on 26th January 1953. The contingent performed its role creditably and returned to Madras on 29th January 1953.

5. On the 7th and 8th February 1953, a combined Sports Rally for the units of both No. 2 and 10 Circles was held at the Corporation Stadium, Madras. The G.O.C.-in-C. Lt. General S. M. SRINAGESH presided over the final day of the Sports and took the Salute. Srimati Srinagesh distributed the prizes to the winners in the Sports Rally.

6. The training for the year 1952-53 concluded in March 1953 and the units held their Companies' Social as a mark of the closing of the training year. Reviewing

the training for the whole year, beginning from July 1952 to March 1953, it was recorded that the general progress in all the units was satisfactory.

7. Then the period of pre-commission and refresher training commenced in April 1953 and came to an end in June 1953. Pre-commission training for the selected Officers was held at Madras Regimental Centre along with the Officers who were undergoing their Refresher training separately; this is an annual feature. Forty-five Junior Div. Officers were attached to 1st and 2nd Madras Bn. N. C. C. in May 1953 for doing their 3 weeks refresher training. Officers of the Junior Div. Naval Wing Units in Madras and Visakhapatnam were sent to I.N.S. Vendurthy in May 1953 for Refresher Training. One Officer from each Infantry Unit was sent to Jammu and Kashmir for 6 weeks refresher training with an active unit, which gave them the experience of seeing and working with a fighting unit of the Army.

8. As soon as the Colleges and Schools re-opened in July 1953 after the summer vacation, the units started enrolling fresh students to fill up the vacancies caused by the outgoing cadets on completion of their training. There was no dearth of applications. The N.C.C. has become so popular among the students that a very large number of applications was received in most of the Colleges and a selection had to be made.

9. In September and October 1953, two important Social Service Camps were held. One was the Circle Cadre Camp conducted at Chetpat, Madras, from 14th September 1953 to 4th October 1953 for 21 days, and the other was the Godavari Flood Relief Camp run at Rajahmundry from 16th September 1953 to 6th October 1953. Both the Camps were run successfully. The object was to render National Service. In Madras

31 N.C.C Officers and 1,400 Cadets were under canvas while constructing houses for the slum dwellers. The camp was held on the playing fields of Pachaiyappa's College very near the site selected for Rammed Earth houses. The construction of the colony, active and interesting as it was, had to contest with interference from the elements apart from other practical difficulties. Fifty rammed earth houses were constructed and were handed over to the Corporation. In spite of the difficulties confronting them, the will and vigour of the cadets alone were responsible for completing the task. For those who saw the boys at work, it was gratifying to note that in their activity was seen the spirit of New India.

10. The second camp at Rajahmundry was an important camp and the human touch was well brought out in all its activities. The normal fine organization of camp had to be sacrificed to the urgency and expediency of the work in hand. About 14 Officers and 350 Cadets worked on this enterprise. They entered the nooks and corners of the town of Rajahmundry, found out where the poor house-owners needed the greatest help, aided the old and infirm in cleaning the debris of fallen houses in addition to cleaning the neighbouring drain and improving the roads. They had recovered valuable articles, pieces of furniture, and utensils and handed them to their owners. On the Godavari Bund itself they constructed a 100 yards stretch of embankment. They dug the neighbouring earth, carried it to the spot and rammed it until the bund rose to 12 feet height. They brought sand from the bed of the river, filled about 3,000 bags with sand and strengthened the bund. This camp also was not free from interference of the elements. In that part of the country it was the rainy season and the cadets had to wade through pools of water and mud to carry out their projects.

11. Visitors streamed in from all parts of the State nay even the country, to visit the Social Service Camps in this Circle. The Prime Minister Sri Jawaharlal Nehru opened the colony at Chetpat Thangal, Madras, on 2nd October 1953. Sri C. Rajagopalachari, the Chief Minister of Madras spent a good hour in the camp. The Vice-Chancellor Dr. A. L. Mudaliar, the Finance Minister C. Subramanian, Sri R. Nagana Gowda, Sri K. Venkatasami Naidu, Major General J. C. Katoch and many others saw for themselves how cadets worked on this new experiment. Dr. S. Radhakrishnan, the Vice-President, visited the colony after it had been completed during one of his visits to the City. The Rajahmundry Camp was not so easily accessible for these important personages to visit. Even so, visitors like Dr. Sushila Nayyar saw the cadets at work.

12. As soon as the Social Service Cadre Camps were over, the Junior Div. Camp of the 1st Madras Bn. N.C.C. was conducted. Twenty-five Officers and 800 Cadets were under canvas outside Fort St. George for a period of 10 days.

13. The Annual Air Wing Camp was conducted for the first time on an all India basis at Kanpur from 12th to 25th October 1953. The 3rd Madras Air Sqn. N.C.C. of this Circle had sent 2 N.C.C. Officers and 69 cadets to this Camp. The contingent was air-lifted by 3 I.A.F. Dakotas and this was a great experience for the cadets. The Madras Air Squadron did well at the Kanpur Camp. They came out first in the shooting competition, did very well in other sections and got a prize for aeromodelling. Their discipline and general standard was of a high order. Their return journey also was by air.

13. The second N.C.C. Day celebration on all India basis was conducted on the morning of 6th December 1953, with an impressive parade and an instructive demonstration of the various aspects of activities on the

Island Grounds under the Presidentship of Major General J. C. Katoch, G.O.C. Madras Area. About 1,000 cadets belonging to the Army, Navy and Air Wing of the N.C.C. took part in the spectacular demonstration which was witnessed by a large gathering including almost all the service Officers of the Madras Area, parents of the cadets and heads of educational institutions. The Parade and demonstrations lasted exactly two hours and every minute of it was enjoyed by those present. Third Madras Air Sqn. N.C.C., gave a display of aeromodels, 5th Madras Bty. N.C.C. gave a demonstralion of gun-drill, 2nd Madras E.M.E. Sec. N.C.C. showed what we call in the Army "Vehicle Recovery"; 3rd Madras Engr. Pl. N.C.C. took the visitors on an aerial-rope way and 1st Madras Bn. demonstrated how the Army conducts an "Internal Defence." The last item was about the training given in the N.C.C.

14. As soon as the N.C.C. Day was over, the Units became busy in organizing their Annual Camps for the year 1953-54. These Camps came to a close by the end of December 1953.

The strength of each unit is as follows :—

Unit.	*Colleges.*	*Coy.*	*Number of Officers.*	*Number of Cadets.*
1st Madras Battalion, Madras.	(1) Presidency College.	'HQ'	13	624
	(2) Govt. Arts College.	'A'		
	(3) Pachaiyappa's College.	'B'		
	(4) Madras Christian College, Tambaram.	'C'		
	(5) Loyola College.	'D'		

Unit.	Colleges.	Coy.	Number of Officers.	Number of Cadets.
2nd Madras Battalion, Tiruchirapalli.	(1) Jamal Mohd. College, Trichy.	'HQ'	14	592
	(2) American College, Madurai. (3) Madura College, Madurai. (4) Thiagarajar College, Madurai.	'A'		
	(5) St. Joseph's College, Trichy.	'B'		
	(6) National College, Trichy.	'C'		
	(7) Govt. College, Kumbakonam.	'D'		
4th Madras Battalion, Palghat.	(1) Govt. Victoria College, Palghat.	I	6	315
	(2) Govt. Arts College, Mangalore. (3) St. Aloysius' College, Mangalore.	I		
Anantapur Indep. Coy., Anantapur.	Govt. Arts College, Anantapur.	I	3	154
3rd Madras Engr. Pl., Guindy.	Engineering College, Guindy.	I Pl.	I	60

Unit.	*Colleges.*	*Coy.*	*Number of Officers.*	*Cadets.*
2nd Madras E.M.E. Sec., Guindy.	Engineering College, Guindy.	1 Pl.	1	57
6th Madras Medical Coy., Madras.	(1) Madras Medical College. (2) Stanley Medical College.		2	60
3rd Madras Air Sqn., Madras.	(1) Loyola College. (2) Pachaiyappa's College. (3) Madras Christian College. (4) Govt. Arts College. (5) Presidency College. (6) A.M. Jain College. (7) Sir Theagaraya College. (8) Madras Medical College. (9) Stanley Medical College. (10) Engineering College, Guindy.		2	75
5th Madras Bty., Madras.	(1) Loyola College. (2) Pachaiyappa's College. (3) Presidency College. (4) Govt. Arts College. (5) Vivekananda College. (6) A.M. Jain College.		2	60
		Total ...	44	1,997

APPENDIX G

Question Paper-Setters and Examiners for 1953 Examinations.

Question Paper-Setters.

ENGLISH.

B.A. (Hons.) and M.A. Degree Examinations

MEMBERS OF THE BOARD.

1. Prof. C. L. Wrenn, M.A. (*Chairman*).
2. Prof. Peter Alexander.
3. Prof. John Butt, M.A.

Matriculation, Intermediate, B.A. (Pass), B.A. (Hons.) Preliminary, B.Sc. (Pass and Hons.) Part I, B.Com. (Pass and Hons.) Part I and B.O.L. (Pass and Hons.) Part I Examinations.

MEMBERS OF THE BOARD

1. Sri K. M. Khadye, M.A. (*Chairman*).
2. Sri M. S. Doraiswami, M.A.
3. Sri U. C. Nag, M.A., Ph.D.
4. Sri K. R. Srinivasa Ayyangar, M.A., D.Litt.
5. Sri A. F. Thyagaraju, M.A.

MATHEMATICS

B.A. (Hons.) and M.A. Degree Examinations.

MEMBERS OF THE BOARD

1. Sri R. Vaidyanathaswami, M.A., D.Sc. (*Chairman*).
2. Sri D. P. Banerjee, M.A., D.Sc., F.S.S.
3. Sri G. S. Mahajani, M.A.
4. Sri S. Minakshisundaram, M.A., D.Sc.
5. Sri A. Narasinga Rao, M.A., L.T., D.Sc., F.A.Sc., M.Ac.S.I.

Matriculation, Intermediate, B.A. and B.Sc. Degree Examinations

MEMBERS OF THE BOARD.

1. Sri N. M. Shah M.A. (Cantab) (*Chairman*).
2. Sri B. C. Das, M.A., M.A.S.I.
3. Sri G. R. Narayana Ayyar, M.A., L.T.
4. Sri Ram Behari, M.A., Ph.D., Sc.D. F.N.I.
5. Sri T. S. Venkataraman, M.A.

QUESTION PAPER-SETTERS NOT MEMBERS OF THE BOARD.

1. Sri K. Nagabushanam, M.A.
2. Sri T. A. Satagopan, M.A.
3. Sri C. V. Subbarama Ayyar, M.A.

STATISTICS

For all Examinations (B.A. and B.Sc. (Pass and Hons. Degree.)

MEMBERS OF THE BOARD

1. Sri U. Sivaraman Nair, M.A., Ph.D., F.A.Sc., F.N.I. (*Chairman*).
2. Sri C. R. Rao, M.A., Ph.D.
3. Sri N. Sundararama Sastri, M.A., M.Sc., Ph.D. (Lond.)
4. Sri K. Sambasiva Rao, M.A., M.Sc.

PHYSICS

B.Sc. (Hons.) Degree Examination

MEMBERS OF THE BOARD

1. Sri S. Bhagavantam, D.Sc., F.A.Sc., F.N.I. (*Chairman*).
2. Sri S. B. Bondade, B.A., LL.B., B.Sc. (Hons.) (Lond.)
3. Sri R. S. Krishnan, M.A., D.Sc., Ph.D. (Cantab), F.A.Sc., F.N.I.

Matriculation, Intermediate, B.A. and B.Sc. Degree Examinations

MEMBERS OF THE BOARD.

1. Sri A. Venkata Rao Telang, M.A., F.Inst. P., F.A. Sc.(*Chairman*).
2. Sri D. Bhagavanulu, M.A.
3. Sri N. Ram Lal, M.Sc., Ph.D. (Lond.)
4. Sri L. Sibaiya, D.Sc.

QUESTION PAPER-SETTERS, NOT MEMBERS OF THE BOARD.

1. Sri M. V. Chacko, M A., A.I.R.E., F.I.P.S.
2. Sri V. Sivaramakrishna Ayyar, M.A.

CHEMISTRY.

B.Sc. (Hons.) Degree Examination

MEMBERS OF THE BOARD

1. Sri R. D. Desai, B.A , M.Sc., D.Sc. (Lond.), F.I.I.Sc., F.N.I., F.R.I.C., F.A.Sc. (*Chairman*).
2. Sri B. Prasad, D.Sc.
3. Sri R. C. Ray, D.Sc. (Lond.), F.I.I.Sc., F.R.I.C., F.N.I.

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12. Dr. C. Vareed, M.B.B.S., M.Sc.

*Not a member of the Board *for April.*

Second M.B. & B.S. Examination

MEMBERS OF THE BOARD :

1. Dr. Isaac Joseph, L.M. & S., B.S.Sc. (*Chairman*).
2. Dr. P. De, B.Sc., M.B., F.R.C.P. (Edin.), F.N.I.
3. Dr. G. S. Raghunatha Rao, B.Sc., M.B.B.S., D.Phil. (Oxon.)
4. Dr. K. N. Sinha, M.B.B.S., F.R.F.P.S.
5. Dr. K. P. Sarathy, M.B.B.S., M.Sc.
6. Dr. S. E. D. Masilamani, M.B.B S., B.S.Sc., D.P.H. (Lond.)
7. Dr. N. Parthasarathy, L.M. & S., B.S.Sc.
8. Dr. T. S. Adisubrahmanian, M.B.B.S., B.S.Sc.
9. Dr. C. Mohanarangam, M.B.B.S., M.D.
10. Dr. V. R. Naidu, M.B.B.S., M.S. (Minnesota), M.R.C.P. (Lond.), D.T.M. & H. (Eng.), F.A.S.C.P.
11. Dr. Y. S. Narayana Rao, M.B.B.S., D.T.M. (Cal.), D.B. (Lond.)
12. Dr. G. S. Viswanathan, M.D.

Final M.B. & B.S. Degree Examination, April 1953

MEMBERS OF THE BOARD:

1. Lt.-Col. Sangham Lal, M.B.B S., L.R.C.P. (Lond.), M.R.C.S. (Eng.), F.R.C.S. (Eng.), D.O.M.S. (Lond.) (*Chairman*) (For April only).
2. Dr. M. Asirvadham, B.A., M.B.B.S., Ph.D. (Chic., U.S.A.)
3. Dr. I. Bhooshana Rao, M.B.B.S., M.D.
4. Dr. D. Jagannatha Reddi, M.D.
5. Dr. P. Venkata Rao, B.A., M.B.B.S., M.Sc., A.R.I.C.
6. Dr. S. N. Gantayat, M.B.B S., D.O. (Oxon.)
7. Dr. Prem Chandra, M.B.B.S. (Punj.), M.S. (Punj.), D.O. M.S., D.L.O. (Lond.).
8. Dr. A. B. Rao, M.R.C.S., L.R.C.P., D.O.M.S. (Eng.)
9. Dr. M. B. Sunder Rao, M.B.B.S., D.O.M.S. (Lond.)
10. Dr. S. T. Achar, M.D., F.R.C.P. (C.)
11. Dr. Bankat Chandra, M.B.B.S., M.R.C.P., M.R.C.S.
12. Dr. J. A. S. Masilamani, M.B.B.S., M.D.
13. Dr. T. K. Raman, M.D., D.T.M. (Cal.)
14. Dr. N. Vaidyanathan, M.D.
15. Dr. K. S. Sanjivi, M.B.B.S., M.D.

16. Dr. A. Sreenivasan, M.R.C.S. (Eng.), M.R.C.P. (Lond.)
17. Dr. R. Subramaniam, B.Sc., M.D., M.R.C.P. (Eng.)
18. Dr. M. Authikesavalu, M.B. (Can.), M.S. (Can.), F.R.C.S. (C)
19. Dr. K. K. Chintan Nambiar, M.B.B.S., F.R.C.S. (Eng.) F.R.C.S. (Edin.)
20. Dr. R. Mahadevan, M S., F.R.C.S. (Eng.), F.R.C.S. (Edin.) (*Chairman* for December).
21. Dr C. K. Padmanabha Menon, M.B.B.S., M.S., F.R.C.S. (Eng.)
22. Dr. S. P. Srivatsava, M.B., M.S., F.R.C.S.
23. Dr. D. Subramania Ayyar, M.B.B.S., M.S., F.R.C.S. (Eng.).
24. Dr. V. R. Thayumanaswami, M.B.B.S., M.S., F.R.C.S. (Eng.), M.Ch. Orth. (L'Pool).
25. Dr. I. Chalapathy Naidu, M.S. (For December only).
26. Dr. (Mrs.) S. Abraham, M.B.B.S., D.G.O., M.D.
27. Dr. (Sm.) J. Dei, M.B.B.S., M.R.C.O.G.
28. Dr. (Miss) E. V. Kalyani Amma, M.D. (For April only).
29. Dr. M. K. Krishna Menon, B.A., M.D., D.G.O.
30. Dr. S. C. Bose, B.Sc., M.B., F.R.C.S. (Edin.), F.R.C.O.G. (For April only).
31. Dr. (Mrs.) B. Purushottam, M.D., F.R.F.P.S.
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33. Dr. (Mrs.) Shalinibai V. Tilak, M.B.B.S., F.R.C.S.
34. Dr. (Miss) P. T. Madhavi Amma, M.D., M.R.C.P. (Lond.) (For December only).
35. Dr. R. G. Krishnan, F.R.C.S. (For December only).

M.D. Degree Examination

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3. Dr. B. H. P. Pai, M.D.
4. Dr. K. N. Pisharoty, M.D., M.R.C.P. (Lond.), D.T.M.
5. Dr. M. K. Krishna Menon, B.A., M.D., D.G.O
6. Dr. (Miss) D. M. Satur, B.A., F.R.C.S. (Ed.), M.R.C.O.G. (Lond.)
7. Dr. (Miss) H. M. Lazarus, C.B.E., B.A., F.R.C.S. (Ed.), F.R.C.O.G., F.A.P.C.S.

8. Dr. M. N. Sarkar, B.A., M.B., F.R.C.S., F.R.C.O.G.
9. Dr. Y. S. Narayana Rao, M.B.B.S., D.T.M. (Cal.), D.B. (Lond.) (*Convener*).
10. Prof. Gaya Prasad, B.Sc. (Hons.), M.D., M.R.C.P. (Lond. and Edin.), D.C.P. (Lond.), D.T.M. (L'Pool), D.C.H. (Lond.)
11. Dr. P. N. Wahi, M.D., M.R.C.P. (Lond.)
12. Dr. Govind Lal Sharma, M.B.B.S. (Hons.), M.D.

M.S. Degree Examination

BOARD OF EXAMINERS :

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4. Dr. C. P. Viswanatha Menon, M.S., F.R.C.S. (Eng.)
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Diploma in Tuberculosis Examination

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3. Dr. K. Vasudeva Rao, M.D.,M.R.C.P. (Eng.), T.D.D. (Wales).
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Diploma in Ophthalmology Examination

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Diploma in Oto-Rhino Laryngology Examination

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3. Sri C. Bhashyakarla Rao, M.Sc., L.T., Ph.D. (Lond.).
4. Miss T. Doraiswami, B.Sc. (Hons.), L.T.
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3. Dr. G. S. Raghunatha Rao, B.Sc., M.B.B.S., D.Phil. (Oxon.).
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B. Pharm. Final Part II Examination

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3. Sri A. N. Ratnagiriswaran, M.A., F.R.I.C.
4. Dr. S. Rangaswami, M.A., Ph.D., D. Phil.

B.S.Sc. Part I Examination

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3. Dr. S.E.D. Masilamani, M.B.B.S., B.S.Sc., D.P.H. (Lond.).
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B.S.Sc. Part II Examination

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4. Dr. N. Parthasarathy, L.M. &. S., B.S.Sc.
5. Dr. T. R. Rangaswami, M.B.B.S., B.S.Sc.
6. Dr. Y. K. Subrahmanyam, M.B.B.S., D.P.H. (For July only)
7. Dr. S.E.D. Masilamani, M.B. B.S., B.S.Sc., D.P.H. (Lond.) (For November only).

INTERMEDIATE EXAMINATION IN SCIENCE IN NURSING

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2. Sri M. K. Shanmugam, M.A., L.T.
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4. Sri S. Jesuratnam, B.A., B.Sc.
5. The Rev. John H. Piet, B.A., B.D., S.T.M., Ph.D.
6. Dr. (Miss) L. Chacko, M.B.B.S., M.Sc., D.Phil.
7. Dr. C. Venkataramiah, M.B. B.S., M.Sc.
8. Mrs. P. A. Bhanumathi, M.A., B.Sc. (Hons.).
9. Miss L. Rangacharlu, M.Sc.
10. Dr. (Miss) E. D. Mason, M.A., Ph.D., D.Sc.
11. Miss Helen Benjamin, B.A.
12. Miss Gladys E. Hamilton, B.Sc.

B.Sc. Degree Examination in Nursing

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3. Miss Helen Benjamin, B.A.
4. Sri M. J. Sudarsanam, M.A.
5. Mrs. Annamma Mathews, R.N., R.M., B.Sc. (Nursing).
6. Miss Vera K. Pitman.

7. Dr. (Miss) H. M. Lazarus, F.R.C.S., F.R.C.O.G., F.A.C.S. (For April only).
8. Dr. (Miss) Carol E. Jameson, B.A., M.D., F.R.C.S. (C.), F.A.C.S. (For October only).
9. Dr. C. Satyanarayana, M.B.,B.S., D.L.O., M.S. (For April only).
10. Dr. (Mrs.) B.S. De Valois, B.A., M.D., D.N.B., F.R.C.S.

ENGINEERING EXAMINATIONS

(TO CONDUCT EXAMINATIONS)

I and II B.E. Examinations

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3. Sri K. Achuthan Nair, B.E., A.M.I.E. (Ind.).
4. Sri S. Srinivasan, B.E., A.M.I.E. (Chicago), M.Sc., M.S.E.E. (U. S. A.).

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3. Sri P. V. Abdur Rahiman, M.A., Ph.D.
4. Sri M. V. John, M.A.
5. Sri B. M. Lakshmipathi Mudaliar, B.E., M.E., M.R.A.S.E.
6. Sri C. Rajaram, B.A., B.E.
7. Sri A.T.B. Saravanaswami, B.A. (Hons.).
8. Sri B. V. R. Subba Rao, B.Sc. (Hons.).
9. Sri R. Ramaswami, B.E.
11. Sri S. Subramanian, B.E.
11. Sri P. E. John, B.E.

Third and Final B. E. Degree Examinations.

MEMBERS OF THE BOARD :

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2. Sri P. N. Damodaran, B.E.
3. Sri V. Kalyanaraman, B.E., M.A.Sc. (Toronto), A.M.I.E., Assoc. M.A.S.C.E.
4. Sri P. R. Ramaswami, B.Sc. (Hons.) (Manch.), A.M.I.C.E. (Lond.), A.M.I.E.

5. Sri K. V. Thadaney, B.E., A.M.I.E.
6. Sri S. Ananthakrishnan, B.A , B.E., A.M.I.E.
7. Sri K. B. Krishna Rao, B A , B.E., M.I.E.
8. Sri S. P. Vores, B.E.
9. Sri A. R. Narayana Rao, B.E.
10. Sri A. Srinivasan, B.E., M.Sc., M.S. (Illinois), A.M.I.E. (Ind.), A.A.I.E.E.
11. Sri K. Sukumaran, B.E., Ph.D., M.I.E. (Ind.)
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13. Richard Filipowsky, Esq , S.M.I.R.E., M.B.I.R.E., A.M.I.R.E.
14. Sri K. Shivaram Hegde, B.E., M.A. (Engg.).
15. Sri Ganti Subramaniam, B.E., M.A. (Eng.), M.I.R.E., M.N.G.S.
16. Sri V. H. Sadarangani, B.E., B.Sc., M.I.E. (Ind.).
17. Sri C. G. Swaminathan, B.A., B.E., M.Sc., A.M.I.H.E., G I.C.E. (For March only).
18. Sri K. Ramaswami Reddi, B.E., A.M.Am. Soc. C.E., M.I.H.E. (For September only).
19. Sri T. S. Venkataramanan, B.A., B.E., A.M.I.E., M.I.H.E.

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2. Sri S. L. Balasubramanyam, B.E., M.S.
3. Sri R. C. Bhandari, B.Sc. (Tech.) (Manch.), B.Sc. (Hons.) (Ph.), A.M.C.T., A.M.I.E. (Ind.), A.M.I.E.E. (Lond.)
4. Sri D. K. Nambudripad, B.Sc., A.M.I.E. (Ind.), Assoc. Mem. A.I.E.E.
5. Sri P. Dorai Babu, M.A.
6. Sri A. P. Jambulingam, B.E., M.S.(U.S.A.).
7. Sri M. V. John, M.A.
8. Sri S. A. Mani, M.A., L.T.
9. Sri G. A. Narasimha Rao, B.E.
10. Sri K. L. Rao, B.E., M.Sc., Ph.D. (Birm.), A.M.I.C.E., M.I. Struct. E., M.I.E. (Ind.).
11. Sri G. Srirangachari, B.E., A.M.A.S.C.E., M.I.E.

AGRICULTURE

B. Sc. (Ag.) Degree Examinations

MEMBERS OF THE BOARD :

1. Sri P. D. Karunakar, M.Sc., A.R.I.C. (*Chairman*)
2. Sri M. R. Balakrishnan, B.A., B.Sc. (Ag.).
3. Sri B. M. Lakshmipathy Mudaliar, B.E., M.E., M.R.A.S.E.
4. Sri T. Natarajan, B.A., B.Sc. (Ag.).
5. Sri T. Venkataramana Reddy, B Sc. (Ag.), M.Sc.

OTHER EXAMINERS, NOT MEMBERS OF THE BOARD :

1. Sri G. S. Bhatia, B.Sc. (Hons.), M.Sc., Ph.D.
2. Sri J. D. David, G.M.V.C.
3. Sri S. V. Duraiswami, B.A., B.Sc. (Ag.).
4. Sri M. Kantiraj, M.A., B.Sc. (Edin.).
5. Sri B. T. Narayanan, B.A., Ph.D., D.I.C.
6. Sri V. Tirumala Rao, B.Sc. (Ag.).

B.V.Sc. Preliminary Examination (New Regulations)

MEMBERS OF THE BOARD :

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2. Sri B. Naganna, B.Sc., M Sc., A.R.I.C.
3. Mrs. K. Harris, M.A.
4. Sri S. Ranga Rao, M.A., L.T.
5. Sri C. Krishna Rao, G.M.V.C., B.V.Sc., M.S.
6. Sri P. M. Thillanayagam, G.M.V.C.

B.V.Sc., Intermediate Examination Part I

MEMBERS OF THE BOARD :

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2. Sri D. Mariappa, G.M.V.C.
3. Sri K. N. Govindan Nayar, G.M.V.C.
4. Sri V. D. Sadekar, B.Sc., B.V.Sc.
5. Sri I. D. Mantramurthy, B.V.Sc., P.G. (Mukt.)

6. Sri R. Anantan Pillai, L.M. & S., B.S.Sc.
7. Sri M. Anantaraman, M.A., M.Sc.
8. Sri G. Ramanujachari, B.Sc., G.M.V.C., B.V.Sc. (For April only)
9. Sri P. M. Narayanaswami Naidu, B.Sc., D.Sc., L.V.P., F.F.A.S. (For October only)

B.V.Sc. Intermediate Examination

Part II (New Regulations)

1. Sri I. M. Azizuddin, B.A., B.V.Sc., Ph.D. (Edin.) (*Chairman*)
2. Sri D. Govinda Reddy, M.D.
3. Sri V. Iswariah, B.A., M.B. B.S., M.R.C.P. (Edin.), F.R.F.P.S.
4. Sri C. K. Velayudhan Nair, G.M.V.C.
5. Sri I. D. Mantramurthy, B.V.Sc., P.G. (Mukt.)
6. Sri V. Mahadevan, M.A., D.Sc., F.R.I.C.
7. Sri Noshir N. Dastur, M.Sc., Ph.D., A.I.I.Sc.
8. Sri M.S. Rajendran, G.M.V.C., P.G. (Mukt.)

B.V.Sc. Final Examination (New Regulations)

MEMBERS OF THE BOARD :

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3. Sri M. S. Ganapathy, G.M.V C., B.V.Sc. (For December only)
4. Bertie A. D'Souza, Esq., B.V.Sc., P.G.
5. Sri M. Habib Khan, M.R. C.V.S. (Lond.).
6. Sri R. Swaminatha Ayyar, B.A., G.M.V.C.
7. Sri M. Dharmarajan, M.A., M.Sc., Ph.D.
8. Mr. M. S. Ganapathy, G.M.V.C., B.V.Sc. (For April only)
9. Sri S. A. Jabbar, G.M.V.C., I.D.D., M.Sc. (Cornell). (For December only)
10. Dr. S.E.D. Masilamani, M.B.B.S., B.S.Sc., D.P.H.

B.Sc. (Tech.) Part I Examination

CHEMICAL ENGINEERING, TEXTILE AND LEATHER TECHNOLOGY

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3. Sri P. S. Mene, Ph.D. (Lond.), D.I.C., M.I.I. Chem.E.
4. Sri T. N. Muthuswamy, M.A., L.T.
5. Sri R. Natesan, B.E.
6. Sri K. Sukumaran, B.E., Ph.D.
7. Sri S. M. Shah, B.Sc., B.Sc. (Tech.), Ph.D.
8. Capt. P. S. Chowdary, Dip. in Leather Tech. (Lond.).

CHEMICAL ENGINEERING

B.Sc. (Tech.) Part II Examination

MEMBERS OF THE BOARD :

1. Sri G. S. Laddha, B.Sc., B.Sc. (Tech.), M.S. (Chem. Engg.). Ph.D. (Purdue) (*Chairman*).
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3. Sri M.V. Joshi, B.E., B.Sc. (Tech.) (Manch).
4. Sri P. S. Mene, Ph.D., D.I.C., M.I.I.Chem. E.
5. Sri T. N. Mehta, B.A., B.Sc., D.I.C., Ph.D. (Lond.).
6. Sri B. D. Tilak, B.Sc., B.Sc. (Tech.), Ph.D., D.Phil.

B. Sc. (Tech.) Degree Examination.

TEXTILE TECHNOLOGY

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2. Sri R. G. Ghandorkar, B.Sc. (Bom.), L.T.M., M.Sc. (Tech.) (Manch.)
3. Sri C. E. Krishnamurti, B.A., T.D.
4. Sri B. Raha, B.Sc., B.Sc. (Tech.), M.Sc. (Tech.
5. Sri D. Subbarayudu, L.T.M. (Hons.).

B. Sc. (Tech.) Degree Examination

LEATHER TECHNOLOGY—PART II

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APPENDIX H.

Tabular Statement of Hostel Returns from Constituent and Affiliated Colleges

1953-54

No.	Name of College.	Total number of students in the college for 1953-54	Students living with relatives or guardians.	Students living in hostels attached to the college.	Students living in unattached hostels approved by the college authorities.	Students living in lodgings approved by the college authorities.	Students not accounted for under the preceding four heads.
	Arts and Science Colleges.						
	Constituent Colleges.						
1	Government Arts College, Madras ..	1,245	1,009	201	29	6	..
2	Loyola College, Madras ..	1,892	1,042	828	..	22	..
3	Pachaiyappa's College, Madras ..	1,930	1,248	559	87	36	..
4	Presidency College, Madras ..	1,429	937	50	405	37	..
5	Vivekananda College, Madras ..	1,439	1,188	160	63	28	..
6	Ethiraj College for Women, Madras ..	486	409	71	..	..	6
7	Queen Mary's College, Madras ..	661	473	188	..	..	..

8	Stella M ris College, Madras ..	662	523	139	..	..	..
9	Women's Christian College, Madras ..	335	136	199	..	..	..
10	Agurchand Manmull Jain College, Madras.	371	369	..	..	..	2
11	The New College, Madras ..	367	336	31	..	..	..
12	Sir Theagaraya Colleg , Madras ..	560	467	83	2	8	..
	Affiliated First Grade Colleges.						
13	Government Arts College, Anantapur.	1,159	411	312	92	126	218
14	Government Arts College,Coimbatore.	950	741	139	45	4	21
15	Government College, Cuddapah ..	451	325	51	62	..	13
16	St. Albert's College, Ernakulam ..	752	652	86	..	14	..
17	St. Teresa's College, Ernakulam ..	514	195	231	88	..	..
18	Farook College, Feroke ..	580	108	232	152	88	..
19	Alagappa College, Karaikudi ..	1,097	470	441	1	185	..
20	Guruvayurappan College, Kozhikode.	634	535	89	10	..	..

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21	Government College, Kumbakonam ..	977	728	104	32	..	113
22	Osmania College, Kurnool ..	737	621	101	8	7	..
23	The Besant Theosophical College, Madanapalle.	535	129	41	43	322	..
24	The American College, Madurai ..	1,075	538	535	2	..	..
25	Lady Doak College, Madurai ..	299	181	117	1	..	..
26	Madura College, Madurai ..	1,230	912	318	..	..	..
27	Thiagarajar College, Madurai ..	557	253	293	4	3	4
28	Government Arts College, Mangalore.	742	504	40	149	49	..
29	St. Aloysius' College, Mangalore ..	1,177	711	319	118	29	..

30	St. Agnes College, Mangalore ..	339	224	97	18	..	..
31	Government College, Mercara ..	294	185	82	9	10	8
32	Sarah Tucker College, Palayamkottai ..	205	76	129	..	..	..
33	St. John's College, Palayamkottai ..	708	283	360	..	65	..
34	St. Xavier's College, Palayamkottai ..	841	215	560	26	40	..
35	Government Victoria College, Palghat.	1,445	1,015	378	..	52	..
36	Raja's College, Pudukottai ..	514	321	76	..	..	117
37	Salem College, Salem ..	834	779	22	26	7	..
38	Rajah Doraisingam Memorial College, Sivaganga.	422	208	214	..	..	..
39	Madras Christian College, Tambaram.	1,237	487	638	5	107	..
40	Government Brennen College, Tellicherry.	672	576	64	32	..	..
41	Sacred Heart College, Thevara ..	1,190	390	573	6	175	46
42	The M.D.T. Hindu College, Tirunelveli.	731	666	..	38	27	..

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43	Sri Venkateswara College, Tirupati ..	843	283	204	..	356	..
44	Holy Cross College, Tiruchirappalli ..	555	239	316	..	..	..
45	Jamal Mohamed College, Tiruchirapalli.	803	589	166	21	27	..
46	National College, Tiruchirapalli ..	1,087	716	201	94	76	..
47	St. Joseph's College, Tiruchirapalli.	1,977	745	1,190	..	42	..
48	Sree Kerala Varma College, Trichur ..	758	520	26	..	212	..
49	St. Mary's College, Trichur ..	602	375	170	31	26	..
50	St. Thomas' College, Trichur ..	1,098	813	211	32	42	..
51	St. Mary's College, Tuticorin ..	118	55	63	..	..	..

52	V.O. C idambaram College, Tuticorin.	603	432	116	..	55	..
53	Mahatma Gandhi Memorial College, Udipi.	454	287	39	10	41	77
54	Islamiah College, Vaniyambadi ..	407	231	136	..	40	..
55	V.H.N. Senthikumara Nadar College, Virudhunagar.	651	230	325	..	..	96
	Affiliated Second Grade Colleges.						
56	Veerasaiva College, Bellary ..	305	258	13	24	..	10
57	P.S.G. Arts College, Peelamedu (Coimbatore).	587	336	210	41	..	..
58	Nirmala College for Women, Coimbatore.	230	192	38	..	..	..
59	Pachaiyappa's College, Kancheepuram.	372	263	105	..	4	..
60	Malabar Christian College, Kozhikode.	282	239	38	5	..	..
61	Providence Women's College, Kozhikode.	109	65	44	..	..	..
62	Fatima College, Madurai ..	80	66	14	..	..	..

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63	Sitalakshmi-Ramaswami College, Tiruchirapalli.	91	55	36	..	..	..
64	Sri Venkateswara Women's College, Tirupati.	75	38	37	..	..	..
65	Sacred Heart College, Tirupattur ..	141	43	65	..	33	..
66	G.V.G. Visalakshi College for Women, Udamalpet.	49	14	35	..	..	..
67	Voorhees College, Vellore ..	492	392	59	18	23	..
	Professional Colleges.						
1	Madras Law College, Madras ..	1,410	1,105	..	305	..	..
2	Madras Medical College, Madras ..	1,138	284	407	447	..	..

3	Stanley Medical College, Madras ..	704	297	405	..	2	..
4	Christian Medical College, Vellore ..	230	..	230	..	..	..
5	College of Engineering, Guindy, Madras.	546	214	332	..	..	..
6	College of Engineering, Anantapur ..	302	21	279	2	..	..
7	Government College of Technology, Coimbatore.	259	85	103	71	..	..
8	P.S.G. & Son's Charities College of Technology, Coimbatore.	277	38	239	..	..	..
9	Alagappa Chettiar College of Engineering & Technology, Karaikudi.	154	25	123	..	6	..
10	Madras Veterinary College, Madras ..	328	99	222	5	..	2
11	Agricultural College, Coimbatore ..	249	29	220	..	..	..
12	Lady Willingdon Training College, Madras.	110	62	45	3	..	..
13	Meston Training College, Madras ..	81	19	59	2	1	..

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14	St Christopher's Training College, Madras.	59	15	44	..	..	..
15	Teachers' College, Saidapet, Madras ..	146	60	86	..	..	..
16	Sri Ramakrishna Mission Vidyalaya Teachers' Training College, Perianaickenpalayam.	57	..	57	..	..	..
17	Dr. Alagappa Chettiar Training College, Karaikudi.	74	32	31	..	11	..
18	Government Training College, Kozhikode.	100	50	50	..	..	..
19	Government Training College, Kurnool.	74	51	..		..	16

20	Government Training College, Mangalore.	65	35	17	11	2	..
21	St. Ann's Training College, Mangalore.	29	18	9	2	..	..
22	St. Xavier's Training College, Palayamkottai.	46	30	14	2	..	..
23	Y.M.C.A. College of Physical Education, Saidapet, Madras.	38	..	38	..	..	..
	Grand Total ...	53,520	31,621	16,018	2,686	2,446	749